CEMBRE

GENERAL CATALOGUE



www.cembre.com

CEMBRE AT A GLANCE

INNOVATION IS IN OUR DNA

276
Patents and filled applications

121
Registered trademarks in 27 countries

MAIN MANUFACTURING SITE, ITALY

60,000
m^2 of space dedicated to offices, factories, laboratories

121,000
m^2 of site

OUR PRODUCT CODES

17,995
different product codes sold each year

19,515
product codes are available for immediate dispatch

AUTOMATED WAREHOUSE

60,000
bins capacity

10,000
order lines per working day

are registered trademarks of CEMBRE S.p.A.

CEMBRE
Cembre
Crimpstar
ZETApiù
ZETAblock
ZETAmini
SICURclips
MAXIblock
spiralblock
MAXIbrass
EWO
EASY WIRE ORGANIZER

Quality and Innovation: our priorities

LRQA CERTIFIED ISO 9001-2015

Certified Quality Management System

LRQA CERTIFIED ISO 14001-2015

Certified Environmental Management System

LRQA CERTIFIED ISO 45001

Certified Occupational Health&Safety Management System



Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 0030013

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited



Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 – 0029452

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
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for and on behalf of: Lloyd's Register Quality Assurance Limited



Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 45001:2018

Approval number(s): ISO 45001 – 0029580

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited

"It is the aim of CEMBRE S.p.A. and all its employees to pursue the satisfaction of their customers through the fulfilling of their needs by meeting their legitimate expectations."

To achieve this goal, CEMBRE places the following principles at the very heart of its work:

- highest quality product and services
- continuously research and innovative solutions.
- safeguarding the environment and protecting the health and safety of workers and users of its products
- respect and promote the values set out in the Company's Code of Ethics
- ensure strict fulfillment of statutory, national and international laws and regulations

The Company's Management System, certified in accordance with ISO 9001 : 2015 quality standards, ISO 14001 : 2015 for environmental protection and ISO 45001 : 2018 standard for the protection of the health and safety of workers, **are the tools used to translate the principles of company policy into corporate objectives and to monitor their fulfilment.**

RoHS COMPLIANT 2011/65/EU

All CEMBRE products comply with Directive 2011/65/EU of the European Parliament and Council dated 8 June 2011 (and subsequent amendments)

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ELECTRICAL CONNECTORS



CEMBRE

symbol description

electrical connectors



Insulation sleeve in Polyvinylchloride



Insulation sleeve in Polycarbonate



Insulation sleeve in Nylon PA6.6



Insulation sleeve in Polyethylene High Density



Heat shrinkable



Insulation sleeve form to allow easy “introduction" of the conductor



Manufactured from electrolytic Copper strip with a purity greater than 99.9%



Manufactured from Brass strip with a purity greater than 99.9%



Manufactured from electrolytic Copper tube with a purity greater than 99.9%



Manufactured from electrolytic Copper wire with a purity greater than 99.9%



Brazed seam



Brass connectors



Bimetallic connectors, Aluminium and Copper.



Aluminium connectors of of a purity equal to or greater than 99,5%.



Aldrey connectors



Zinc Plated Steel connectors



Internal surface is filled with special grease so as to avoid oxidation of the connector



Low and medium voltage connectors



Connector provided with central stop



Colour coded connectors



Facilitated introduction of the conductor



Inspection hole for checking the correct introduction of the conductor



Contained palm connectors



Annealed material



Electrolytically tin plated to avoid oxidation; min 3µm



Lugs angled

symbol description

electrical connectors

Zinc Plated Steel screws

Zinc Plated Steel nuts

Hexagonal crimp

Radial crimp

Indent crimp

Deep indent crimp

Oval crimp

Trapezium crimp

Circular crimp

Semicircular crimp

Indent crimp

Operating temperature range

Degree of protection

UL LISTING Marking valid in USA & CANADA

UL LISTING Marking valid in USA & CANADA

In accordance with DIN 46235

Meets the requirements for fire testing of materials and components for trains EN 45545-2:2015

Halogen free



CEMBRE

RF BF GF

PVC INSULATED CRIMP TERMINALS

F range funnel entry - for Copper conductors

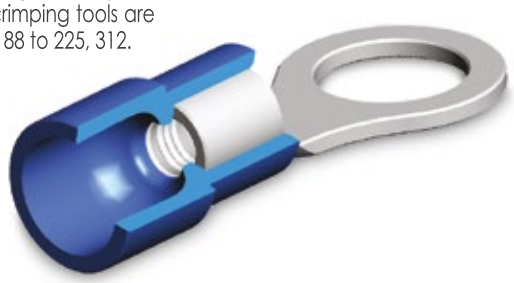


PVC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +80°C | RADIAL

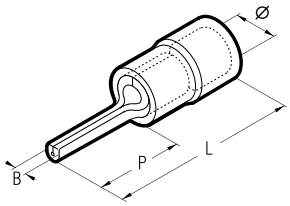
The unique funnel shaped PVC sleeve guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.
The internal surface of the barrel is rifled to improve contact with conductor strands when crimped and to increase tensile strength.
The "F" range of terminals offers a wide selection of rings, forks, pins and blades, designed to meet the ever changing end user requirements.

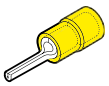
The PVC insulation, is a self extinguishing thermoplastic material class V0 (UL 94).
The operating temperature range is – 20 to + 80°C (Surge + 90°C).
Recommended crimping tools are shown on pages 188 to 225, 312.

c UL us File no. E125401

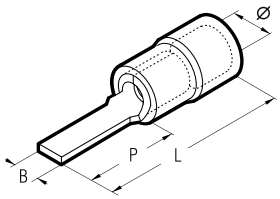


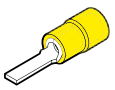
pin terminals



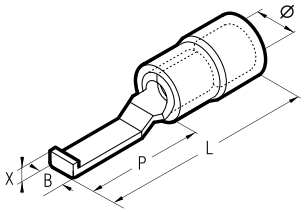
Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RF-P8	4,0	1,6	8,0	17,8	3.000/100
	RF-P10	4,0	1,6	10,0	19,8	3.000/100
	RF-P12	4,0	1,6	12,0	22,0	3.000/100
 1,5÷2,5 (16÷14)	BF-P8	4,9	1,6	8,0	17,8	2.500/100
	BF-P10	4,9	1,6	10,0	19,8	2.500/100
	BF-P12	4,9	1,6	12,0	21,8	2.500/100
 4÷6 (12÷10)	GF-P10	6,6	2,2	10,0	24,5	1.000/100
	GF-P12	6,6	2,2	12,0	26,7	1.000/100
	GF-P14	6,6	2,2	14,0	28,7	1.000/100

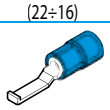
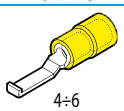
blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RF-PP12	4,0	3,0	12,8	22,8	3.000/100
	RF-PP12/1	4,0	3,0	11,3	21,3	3.000/100
	RF-PP12/19	4,0	1,9	13,2	23,2	3.000/100
	RF-PP12/23	4,0	2,3	13,2	23,2	2.500/100
	RF-PP14	4,0	3,0	14,8	24,8	2.500/100
	RF-PP16/23	4,0	2,3	17,2	27,2	2.500/100
 1,5÷2,5 (16÷14)	BF-PP10	4,9	3,5	10,0	20,0	2.500/100
	BF-PP12	4,9	3,5	12,8	22,8	2.500/100
	BF-PP12/25	4,9	2,5	13,3	23,3	2.000/100
	BF-PP12/29♦	4,9	2,9	13,3	23,3	2.500/100
	BF-PP16/25	4,9	2,5	17,2	27,2	2.500/100
 4÷6 (12÷10)	GF-PP12	6,6	4,0	13,3	27,4	1.000/100
	GF-PP17	6,6	2,9	19,2	33,3	1.000/100

hooked blade terminals



Conductor Size sq mm (AWG)	Type	Dimensions mm Ø	B	P	L	X	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RF-PPL30♦	4,0	3,0	17,5	28,3	1,7	2.500/100
	RF-PPL46♦	4,0	4,6	17,5	28,3	1,7	2.500/100
 1,5÷2,5 (16÷14)	BF-PPL30♦	4,9	3,0	17,5	28,3	1,7	2.000/100
	BF-PPL46♦	4,9	4,6	17,5	28,3	1,7	2.000/100
 4÷6 (12÷10)	GF-PPL46♦	6,6	4,6	17,5	32,6	1,9	1.000/100

♦Not UL approved

PVC INSULATED CRIMP TERMINALS

RF BF GF

F range funnel entry - for Copper conductors



VALSTAR-N4

Robust plastic case with compartments, containing:

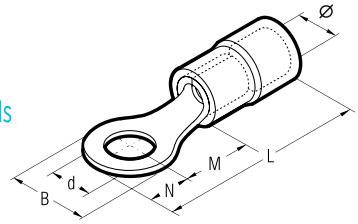
- An assortment of PVC insulated crimp terminals for conductor sizes 0,25 to 6 mm² (22÷10 AWG).
- Cable ties
- Tool Crimpstar® HP3.

Connectors included:

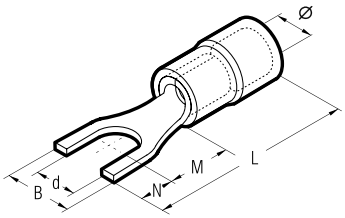
- Qty 100 terminals RF-M4
- Qty 100 terminals BF-M5
- Qty 100 terminals GF-M6
- Qty 100 terminals RF-F608P
- Qty 100 terminals BF-F608P
- Qty 100 connectors PL03-M
- Qty 100 cable ties G100X2.5

PVC · Cu-ETP · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -20°C +80°C · RADIAL

ring terminals



fork/spade terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,25÷1,5 (22÷16)	2	RF-M2*♦	4,0	5,6	4,5	2,8	17,3	2,2	3.000/100
	3	RF-M3	4,0	5,6	4,5	2,8	17,3	3,2	3.000/100
	3,5	RF-M3.5	4,0	5,6	4,5	2,8	17,3	3,7	3.000/100
	3,5	RF-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	3.000/100
	4	RF-M4	4,0	7,0	6,5	3,5	20,0	4,3	3.000/100
	4	RF-M4/3♦	4,0	7,8	7,1	3,9	21,0	4,3	3.000/100
	5	RF-M5	4,0	7,8	7,1	3,9	21,0	5,3	2.500/100
	6	RF-M6	4,0	9,4	8,1	4,7	22,8	6,4	2.500/100
	6	RF-M6/1	4,0	12,0	10,3	6,0	26,3	6,4	2.000/100
	7	RF-M7	4,0	9,4	8,1	4,7	22,8	7,2	2.500/100
	8	RF-M8	4,0	12,0	10,3	6,0	26,3	8,4	2.000/100
	10	RF-M10	4,0	15,5	13,0	7,7	30,8	10,5	1.500/100
	12	RF-M12	4,0	18,0	15,5	9,0	34,5	13,0	1.500/100
1,5÷2,5 (16÷14)	2	BF-M2*♦	4,9	5,6	5,0	2,8	17,8	2,2	3.000/100
	3	BF-M3	4,9	5,6	5,0	2,8	17,8	3,2	2.500/100
	3,5	BF-M3.5	4,9	5,6	5,0	2,8	17,8	3,7	2.500/100
	3,5	BF-M3.5/1	4,9	6,2	6,5	3,1	19,6	3,7	2.500/100
	4	BF-M4	4,9	8,0	6,5	4,0	20,5	4,3	2.500/100
	5	BF-M5	4,9	8,0	7,5	4,0	21,5	5,3	2.000/100
	6	BF-M6	4,9	9,4	8,6	4,7	23,3	6,4	2.000/100
	6	BF-M6/1	4,9	12,0	10,3	6,0	26,3	6,4	2.000/100
	6	BF-M6/2*♦	4,9	8,4	5,4	4,2	19,6	6,4	2.500/100
	7	BF-M7	4,9	10,0	7,8	5,0	22,8	7,2	2.000/100
	8	BF-M8	4,9	12,0	10,3	6,0	26,3	8,4	1.500/100
	10	BF-M10	4,9	15,5	13,0	7,7	30,8	10,5	1.500/100
	12	BF-M12	4,9	18	15,5	9,0	34,5	13,0	1.000/100
4÷6 (12÷10)	3	GF-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.000/100
	3,5	GF-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.000/100
	4	GF-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.000/100
	5	GF-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.000/100
	6	GF-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.000/100
	6	GF-M6/1	6,6	11,0	8,1	5,5	27,7	6,4	1.000/100
	7	GF-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000/100
	8	GF-M8	6,6	13,6	12,1	6,8	33,0	8,4	800/100
	8	GF-M8/1*♦	6,6	11,0	8,1	5,5	27,7	8,4	1.000/100
	10	GF-M10	6,6	13,6	12,1	6,8	33,0	10,5	800/100
	10	GF-M10/1	6,6	15,5	13,8	7,7	35,7	10,5	800/100
	12	GF-M12	6,6	19,0	15,1	9,5	38,7	13,0	500/100
	14	GF-M14	6,6	21,0	16,1	10,5	40,7	15,0	500/100
	16	GF-M16	6,6	24,0	17,1	12,0	43,2	17,0	500/100

Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,25÷1,5 (22÷16)	3	RF-U3	4,0	5,5	5,5	4,0	19,5	3,2	3.000/100
	3,5	RF-U3.5	4,0	6,0	6,5	3,8	20,3	3,7	3.000/100
	3,5	RF-U3.5/1	4,0	7,2	6,5	3,8	20,3	3,7	3.000/100
	3,5	RF-U3.5/2♦	4,0	6,4	6,5	3,8	20,3	3,7	3.000/100
	4	RF-U4	4,0	6,5	7,5	3,7	21,2	4,3	3.000/100
	4	RF-U4/1	4,0	8,5	7,5	3,7	21,2	4,3	3.000/100
	4	RF-U4/2	4,0	7,5	7,5	3,7	21,2	4,3	3.000/100
	5	RF-U5	4,0	8,5	7,5	3,7	21,2	5,3	2.500/100
	5	RF-U5/1*♦	4,0	9,4	7,5	3,7	21,2	5,3	3.000/100
	6	RF-U6	4,0	9,4	8,1	4,7	22,8	6,4	2.000/100
	6	RF-U6/1	4,0	12,0	9,2	7,1	26,3	6,4	2.000/100
	8	RF-U8	4,0	14,0	10,0	6,3	26,3	8,4	2.000/100
	10	RF-U10	4,0	17,5	13,0	7,7	30,8	10,5	1.500/100
	12	RF-U12	4,0	20,0	15,5	9,0	34,5	13,0	1.500/100
1,5÷2,5 (16÷14)	3	BF-U3	4,9	5,5	5,5	4,0	19,5	3,2	2.500/100
	3,5	BF-U3.5	4,9	6,4	6,5	3,8	20,3	3,7	2.500/100
	3,5	BF-U3.5/1*	4,9	7,2	6,5	3,8	20,3	3,7	3.000/100
	4	BF-U4	4,9	6,5	7,5	3,7	21,2	4,3	2.500/100
	4	BF-U4/1	4,9	8,5	7,5	3,7	21,2	4,3	2.000/100
	4	BF-U4/2	4,9	7,5	7,5	3,7	21,2	4,3	2.000/100
	5	BF-U5	4,9	8,5	7,5	3,7	21,2	5,3	2.000/100
	5	BF-U5/2♦	4,9	12,0	11,3	5,0	26,3	5,3	1.500/100
	6	BF-U6	4,9	9,4	8,1	4,7	22,8	6,4	2.000/100
	6	BF-U6/1	4,9	12,0	9,2	7,1	26,3	6,4	2.000/100
	8	BF-U8	4,9	14,0	10,0	6,3	26,3	8,4	1.500/100
	10	BF-U10	4,9	17,5	13,0	7,7	30,8	10,5	1.000/100
	12	BF-U12	4,9	20,0	15,5	9,0	34,5	13,0	1.000/100
4÷6 (12÷10)	3,5	GF-U3.5	6,6	7,5	8,5	3,9	26,5	3,7	1.000/100
	4	GF-U4	6,6	7,5	8,0	4,4	26,5	4,3	1.000/100
	5	GF-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.000/100
	6	GF-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.000/100
	8	GF-U8	6,6	13,5	12,0	8,0	34,1	8,4	800/100
	10	GF-U10	6,6	15,5	13,0	8,0	35,1	10,5	1.000/100
	10	GF-U10/1	6,6	17,5	13,8	7,7	35,7	10,5	1.000/100
	12	GF-U12	6,6	21,0	15,1	9,5	38,7	13,0	500/100
	14	GF-U14	6,6	23,0	16,1	10,5	40,7	15,0	500/100
	16	GF-U16	6,6	26,0	17,1	11,5	42,7	17,0	500/100

♦Not UL approved *Made to order

CEMBRE

RF-F BF-F GF-F



PC | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +115°C | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

FEMALE DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 188 to 225, 312.

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-F305	2,8 x 0,5	3.000/100
	RF-F308♦	2,8 x 0,8	3.000/100
	RF-F405	4,8 x 0,5	2.500/100
	RF-F408	4,8 x 0,8	2.500/100
	RF-F608	6,35 x 0,8	2.500/100
1,5÷2,5 (16÷14)	BF-F405	4,8 x 0,5	2.500/100
	BF-F408	4,8 x 0,8	2.500/100
	BF-F608	6,35 x 0,8	1.500/100
4÷6 (12÷10)	GF-F608	6,35 x 0,8	1.000/100

Polycarbonate* fully insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-F305P	2,8 x 0,5	2.000/100
	RF-F308P♦	2,8 x 0,8	2.000/100
	RF-F405P	4,8 x 0,5	1.500/100
	RF-F408P	4,8 x 0,8	1.500/100
	RF-F608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-F405P	4,8 x 0,5	1.500/100
	BF-F408P	4,8 x 0,8	1.500/100
	BF-F608P	6,35 x 0,8	1.000/100
4÷6 (12÷10)	GF-F608P	6,35 x 0,8	800/100

RF-M BF-M GF-M



PC | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +115°C | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

MALE DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 188 to 225, 312.

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-M608	6,35 x 0,8	3.000/100
1,5÷2,5 (16÷14)	BF-M608	6,35 x 0,8	2.000/100
4÷6 (12÷10)	GF-M608	6,35 x 0,8	1.000/100

Polycarbonate* fully insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-M608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-M608P	6,35 x 0,8	800/100

RF-FM BF-FM RF-B BF-B



PC | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +115°C | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

MALE/FEMALE

for Copper conductors

Recommended crimping tools are shown on pages 188 to 225, 312.

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-FM608	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-FM608	6,35 x 0,8	1.000/100

BULLET AND SOCKET

for Copper conductors

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Ø mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-BM4♦	4,0	2.500/100
	RF-BF4♦	3,95	800/100
1,5÷2,5 (16÷14)	BF-BM5♦	5,0	2.000/100
	BF-BF5♦	4,95	800/100

♦Not UL approved

BUTT AND PARALLEL CONNECTORS

for Copper conductors

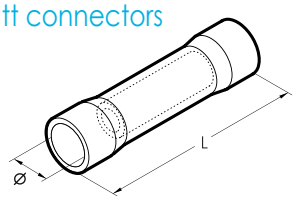
PL



PVC ANNEALED Cu 3µm TIN PLATED -20°C +80°C RADIAL

PVC insulated

butt connectors



parallel connectors

Recommended crimping tools are shown on pages 188 to 225, 312.

Conductor Size sqmm (AWG)	Type	Ø mm	L mm	Quantity Box/Bag
0,2÷0,5 (24÷20)	PL01-M♦	3,0	25,0	3.000/100
0,25÷1,5 (22÷16)	PL03-M	4,0	25,0	1.000/100
1,5÷2,5 (16÷14)	PL06-M	5,0	25,0	1.500/100
4÷6 (12÷10)	PL1-M	6,5	32,0	500/100
0,25÷1,5 (22÷16)	PL03-P♦	4,0	20,0	3.000/100
1,5÷2,5 (16÷14)	PL06-P♦	5,0	16,0	2.000/100

BUTT CONNECTORS

for Copper conductors

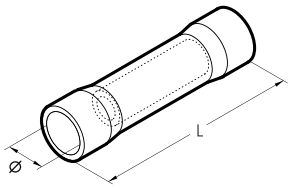
NL-M



PA6.6 ANNEALED Cu 3µm TIN PLATED -20°C +115°C INDENT RADIAL

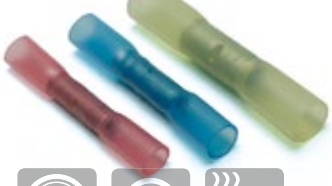
Polyamide PA6.6 insulated

Recommended crimping tools are shown on pages 188 to 225, 312.



Conductor Size sqmm (AWG)	Type	Ø mm	L mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	NL03-M	4,0	25,0	1.000/100
1,5÷2,5 (16÷14)	NL06-M	5,4	25,5	1.500/100
4÷6 (12÷10)	NL1-M	7,6	32,0	500/100
10 (8÷7)	NL2-M	8,0	43,0	500/100
16 (6÷5)	NL3-M	9,2	44,0	400/100

WL-M

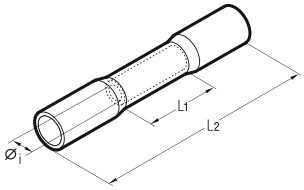


PE HD Cu SHRINKABLE -40°C +105°C RADIAL IP68

PE HD insulated, heat shrinkable

HF HALOGEN FREE

Recommended crimping tools are shown on pages 172, 184-185.



Conductor Size sqmm (AWG)	Type	Ø mm	L1 mm	L2 mm	Quantity Box/Bag
0,5÷1,5 (20÷16)	WL03-M	1,7	15,0	36,0	1.500/100
1,5÷2,5 (16÷14)	WL06-M	2,3	15,0	36,0	1.000/100
4÷6 (12÷10)	WL1-M	3,5	15,0	41,0	500/100

- Max operating voltage: 600 V
- Shrink temperature: 150 °C
- Protection: IP68

CLOSE END CONNECTORS

for Copper conductors

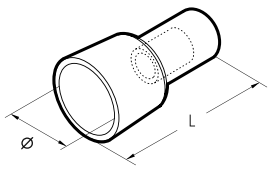
NL-P



PA6.6 Cu ANNEALED 3µm TIN PLATED -20°C +115°C INDENT RADIAL

Polyamide PA6.6 insulated

Recommended crimping tools are shown on pages 188 to 225, 312.



Conductor Size sqmm (AWG)	Type	Ø mm	L mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	NL03-P	7,9	21,0	1.000/100
1,5÷2,5 (16÷14)	NL06-P	7,9	19,9	1.000/100
	NL06-PB	6,5	13,6	1.500/100
4÷6 (12÷10)	NL1-P	10,5	21,5	500/100
	NL1-PG	9,0	17,8	1.000/100

♦Not UL approved

CEMBRE

VP RP BP GP

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors



PC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | RADIAL

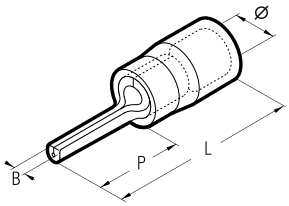
The "P" range of terminals has been designed, to meet the increasing demands for improved safety and reliability of electrical connectors.
The Polycarbonate insulation type PC10500AC certified EN45545-2, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94). The unique funnel shaped entry of the insulation sleeve, guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.

The operating temperature range is – 20 to + 115°C (Surge + 130°C).

Recommended crimping tools are shown on pages 188 to 225, 312.

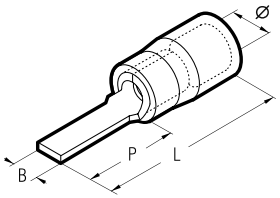
EN 45545-2 | HF HALOGEN FREE | c UL us File no. E125401

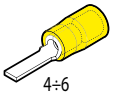
pin terminals



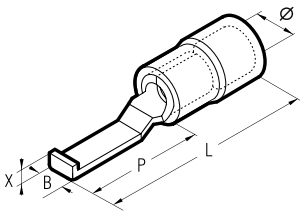
Conductor Size sqmm [AWG]	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,2÷0,5 (24÷20)	VP-P10	3,0	1,0	9,8	20,2	4.000/100
 0,25÷1,5 (22÷16)	RP-P8	4,0	1,6	7,8	17,9	3.000/100
	RP-P10	4,0	1,6	9,8	19,9	3.000/100
	RP-P12	4,0	1,6	12,0	22,1	3.000/100
 1,5÷2,5 (16÷14)	BP-P8	4,9	1,6	7,8	17,9	3.000/100
	BP-P10	4,9	1,6	9,8	19,9	3.000/100
	BP-P12	4,9	1,6	11,8	21,9	2.500/100
 4÷6 (12÷10)	GP-P10	6,6	2,2	10,4	24,5	1.000/100
	GP-P12	6,6	2,2	12,6	26,7	1.000/100
	GP-P14	6,6	2,2	14,6	28,7	1.000/100

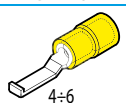
blade terminals



Conductor Size sqmm [AWG]	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,2÷0,5 (24÷20)	VP-PP12/19	3,0	1,9	12,4	22,4	4.000/100
 0,25÷1,5 (22÷16)	RP-PP12	4,0	3,0	12,8	22,9	3.000/100
	RP-PP12/1	4,0	3,0	11,3	21,4	3.000/100
	RP-PP12/19	4,0	1,9	13,2	23,3	3.000/100
	RP-PP12/23	4,0	2,3	13,2	23,3	2.500/100
	RP-PP14	4,0	3,0	14,8	24,9	2.500/100
	RP-PP16/23	4,0	2,3	17,2	27,3	2.500/100
 1,5÷2,5 [16÷14]	BP-PP12	4,9	3,5	12,8	22,9	2.500/100
	BP-PP12/25	4,9	2,5	13,3	23,4	2.000/100
	BP-PP12/29	4,9	2,9	13,3	23,4	2.500/100
	BP-PP16/25	4,9	2,5	17,2	27,3	2.500/100
 4÷6 (12÷10)	GP-PP12	6,6	4,0	13,3	27,4	1.000/100
	GP-PP17	6,6	2,9	19,1	33,2	1.000/100

hooked blade terminals



Conductor Size sqmm [AWG]	Type	Dimensions mm Ø	B	P	L	X	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RP-PPL30	4,0	3,0	17,5	28,3	1,7	3.000/100
	RP-PPL46	4,0	4,6	17,5	28,3	1,7	3.000/100
 1,5÷2,5 [16÷14]	BP-PPL30	4,9	3,0	17,5	28,3	1,7	2.500/100
	BP-PPL46	4,9	4,6	17,5	28,8	1,7	2.500/100
 4÷6 (12÷10)	GP-PPL46	6,6	4,6	17,5	32,6	1,9	1.000/100

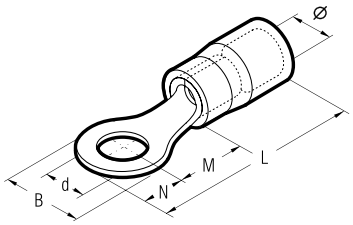
*Not UL approved

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors

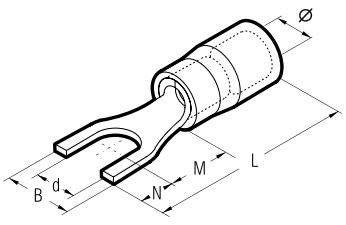
VP RP BP GP

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,2÷0,5 (24÷20)	2	VP-M2*	3,0	5,6	4,5	2,8	17,5	2,2	4.000/100
	3	VP-M3	3,0	5,6	4,5	2,8	17,5	3,2	4.000/100
	3,5	VP-M3.5	3,0	5,6	4,5	2,8	17,5	3,7	4.000/100
	4	VP-M4	3,0	7,0	6,5	3,5	20,2	4,3	4.000/100
	5	VP-M5	3,0	7,8	7,1	3,9	21,2	5,3	4.000/100
	6	VP-M6*	3,0	9,4	8,1	4,7	23,0	6,4	4.000/100
0,25÷1,5 (22÷16)	2	RP-M2*	4,0	5,6	4,5	2,8	17,4	2,2	3.000/100
	3	RP-M3	4,0	5,6	4,5	2,8	17,4	3,2	3.000/100
	3,5	RP-M3.5	4,0	5,6	4,5	2,8	17,4	3,7	3.000/100
	3,5	RP-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	3.000/100
	4	RP-M4	4,0	7,0	6,5	3,5	20,1	4,3	3.000/100
	4	RP-M4/3	4,0	7,8	7,1	3,9	21,1	4,3	3.000/100
	5	RP-M5	4,0	7,8	7,1	3,9	21,1	5,3	2.500/100
	6	RP-M6	4,0	9,4	8,1	4,7	22,9	6,4	2.500/100
	6	RP-M6/1	4,0	12,0	10,3	6,0	26,4	6,4	2.000/100
	7	RP-M7	4,0	9,4	8,1	4,7	22,9	7,2	2.500/100
	8	RP-M8	4,0	12,0	10,3	6,0	26,4	8,4	2.500/100
	10	RP-M10	4,0	15,5	13,0	7,7	30,9	10,5	1.500/100
	12	RP-M12	4,0	18,0	15,5	9,0	34,6	13,0	1.500/100
1,5÷2,5 (16÷14)	2	BP-M2*	4,9	5,6	5,0	2,8	17,9	2,2	2.500/100
	3	BP-M3	4,9	5,6	5,0	2,8	17,9	3,2	2.500/100
	3,5	BP-M3.5	4,9	5,6	5,0	2,8	17,9	3,7	3.000/100
	3,5	BP-M3.5/1	4,9	6,2	6,5	3,1	19,7	3,7	2.500/100
	4	BP-M4	4,9	8,0	6,5	4,0	20,6	4,3	2.500/100
	5	BP-M5	4,9	8,0	7,5	4,0	21,6	5,3	2.000/100
	6	BP-M6	4,9	9,4	8,6	4,7	23,4	6,4	2.000/100
	6	BP-M6/1	4,9	12,0	10,3	6,0	26,4	6,4	2.000/100
	6	BP-M6/2*	4,9	8,4	5,4	4,2	19,7	6,4	2.500/100
	7	BP-M7	4,9	10,0	7,8	5,0	22,9	7,2	2.500/100
	8	BP-M8	4,9	12,0	10,3	6,0	26,4	8,4	1.500/100
	10	BP-M10	4,9	15,5	13,0	7,7	30,9	10,5	1.500/100
	12	BP-M12	4,9	18,0	15,5	9,0	34,6	13,0	1.000/100
4÷6 (12÷10)	3	GP-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.000/100
	3,5	GP-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.500/100
	4	GP-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.000/100
	5	GP-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.000/100
	6	GP-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.000/100
	6	GP-M6/1	6,6	11,0	8,1	5,5	27,7	6,4	1.000/100
	7	GP-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000/100
	8	GP-M8	6,6	13,6	12,1	6,8	33,0	8,4	800/100
	8	GP-M8/1*	6,6	11,0	8,1	5,5	27,7	8,4	1.000/100
	10	GP-M10	6,6	13,6	12,1	6,8	33,0	10,5	1.000/100
	10	GP-M10/1	6,6	15,5	13,8	7,7	35,7	10,5	1.000/100
	12	GP-M12	6,6	19,0	15,1	9,5	38,7	13,0	500/100
	14	GP-M14	6,6	21,0	16,1	10,5	40,7	15,0	500/100
	16	GP-M16	6,6	24,0	17,1	12,0	43,2	17,0	500/100

fork/spade terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,2÷0,5 (24÷20)	3	VP-U3	3,0	5,5	5,5	4,0	18,7	3,2	4.000/100
	3,5	VP-U3.5	3,0	6,0	6,5	3,8	19,5	3,7	4.000/100
	4	VP-U4	3,0	6,5	7,5	3,7	20,4	4,3	4.000/100
0,25÷1,5 (22÷16)	3	RP-U3	4,0	5,5	5,5	4,0	19,6	3,2	3.000/100
	3,5	RP-U3.5	4,0	6,0	6,5	3,8	20,4	3,7	3.000/100
	3,5	RP-U3.5/2	4,0	6,4	6,5	3,8	20,4	3,7	3.000/100
	4	RP-U4	4,0	6,5	7,5	3,7	21,3	4,3	3.000/100
	4	RP-U4/1	4,0	8,5	7,5	3,7	21,3	4,3	3.000/100
	4	RP-U4/2	4,0	7,5	7,5	3,7	21,3	4,3	3.500/100
	5	RP-U5	4,0	8,5	7,5	3,7	21,3	5,3	3.000/100
	5	RP-U5/1*	4,0	9,4	7,5	3,7	21,3	5,3	3.000/100
	6	RP-U6	4,0	9,4	8,1	4,7	22,9	6,4	2.000/100
	6	RP-U6/1	4,0	12,0	9,2	7,1	26,4	6,4	2.000/100
	8	RP-U8	4,0	14,0	10,0	6,3	26,4	8,4	2.000/100
	10	RP-U10	4,0	17,5	13,0	7,7	30,9	10,5	1.500/100
	12	RP-U12	4,0	20,0	15,5	9,0	34,6	13,0	1.500/100
1,5÷2,5 (16÷14)	3	BP-U3	4,9	5,5	5,5	4,0	19,6	3,2	2.500/100
	3,5	BP-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	2.500/100
	3,5	BP-U3.5/1*	4,9	7,2	6,5	3,8	20,4	3,7	2.500/100
	4	BP-U4	4,9	6,5	7,5	3,7	21,3	4,3	2.500/100
	4	BP-U4/1	4,9	8,5	7,5	3,7	21,3	4,3	3.000/100
	4	BP-U4/2	4,9	7,5	7,5	3,7	21,3	4,3	2.000/100
	5	BP-U5	4,9	8,5	7,5	3,7	21,3	5,3	2.000/100
	6	BP-U6	4,9	9,4	8,1	4,7	22,9	6,4	2.000/100
	6	BP-U6/1	4,9	12,0	9,2	7,1	26,4	6,4	2.000/100
	8	BP-U8	4,9	14,0	10,0	6,3	26,4	8,4	1.500/100
	10	BP-U10	4,9	17,5	13,0	7,7	30,9	10,5	1.000/100
	12	BP-U12	4,9	20	15,5	9,0	34,6	13,0	1.500/100
4÷6 (12÷10)	3,5	GP-U3.5	6,6	7,5	8,5	3,9	26,5	3,7	1.000/100
	4	GP-U4	6,6	7,5	8,0	4,4	26,5	4,3	1.000/100
	5	GP-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.000/100
	6	GP-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.000/100
	8	GP-U8	6,6	13,5	12,0	8,0	34,1	8,4	1.000/100
	10	GP-U10	6,6	15,5	13,0	8,0	35,1	10,5	1.000/100
	10	GP-U10/1	6,6	17,5	13,8	7,7	35,7	10,5	1.000/100
	12	GP-U12	6,6	21,0	15,1	9,5	38,7	13,0	500/100
	14	GP-U14	6,6	23,0	16,1	10,5	40,7	15,0	500/100
	16	GP-U16	6,6	26,0	17,1	11,5	42,7	17,0	500/100

*Made to order

CEMBRE

CRP CBP CGP

INSULATED CHAIN TERMINALS

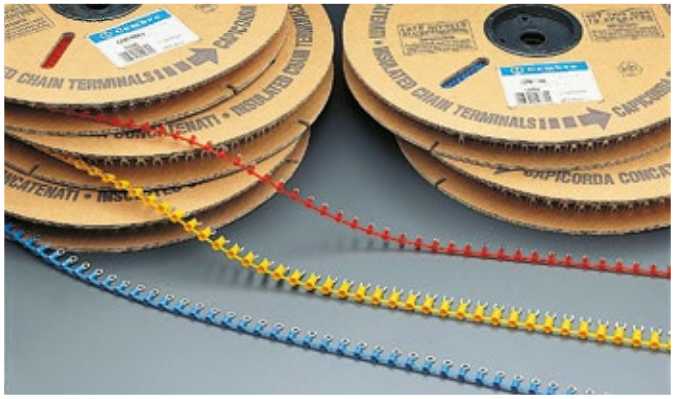
CP range with easy entry - for Copper conductors



PC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | RADIAL

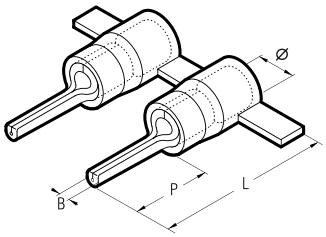
EN 45545-2 | HF HALOGEN FREE

The "CP" range of terminals has been designed to meet the increasing demands for improved safety and reliability of electrical connectors. Developed for use with production equipment, to give a quick and reliable crimped joint, the Polycarbonate insulation type PC10500AC certified EN45545-2, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94).
The unique funnel shaped entry of the insulation sleeve guarantees strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection. The operating temperature range is – 20 to + 115°C (Surge + 130°C).



pin terminals

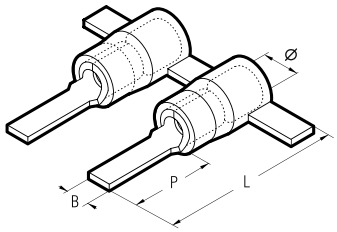
c UL us File no. E125401



Conductor Size sqmm (AWG))	Type	Dimensions mm Ø	B	P	L	Quantity
0,25÷1,5 (22÷16)	CRP-P8	4,0	1,6	8,0	17,9	2.000
	CRP-P10	4,0	1,6	10,0	19,9	2.000
	CRP-P12	4,0	1,6	12,0	22,1	2.000
1,5÷2,5 (16÷14)	CBP-P8	4,9	1,6	8,0	17,9	1.750
	CBP-P10	4,9	1,6	10,0	19,9	1.750
	CBP-P12	4,9	1,6	12,0	21,9	1.750
4÷6 (12÷10)	CGP-P10	6,6	2,2	10,0	24,5	1.250
	CGP-P12	6,6	2,2	12,0	26,7	1.250
	CGP-P14	6,6	2,2	14,0	28,7	1.250

blade terminals

c UL us File no. E125401

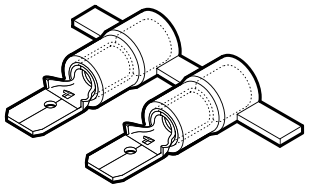


Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity
0,25÷1,5 (22÷16)	CRP-PP12	4,0	3,0	12,8	22,9	2.000
	CRP-PP12/1*	4,0	3,0	11,3	21,4	2.000
	CRP-PP12/23*	4,0	2,3	13,2	23,3	2.000
	CRP-PP14	4,0	3,0	14,8	24,9	2.000
1,5÷2,5 (16÷14)	CBP-PP12	4,9	3,5	12,8	22,9	1.750
	CBP-PP12/25*	4,9	2,5	13,3	23,4	1.750
4÷6 (12÷10)	CGP-PP12	6,6	4,0	13,3	27,4	1.250
	CGP-PP17*	6,6	2,9	19,1	33,2	1.250

male disconnect terminals

c UL us File no. E212000

Brass

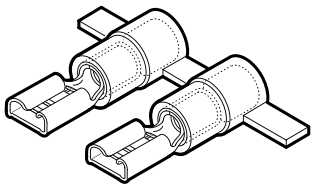


Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-M608	6,35 x 0,8	2.000
1,5÷2,5 (16÷14)	CBP-M608	6,35 x 0,8	1.750
4÷6 (12÷10)	CGP-M608	6,35 x 0,8	1.250

female disconnect terminals

c UL us File no. E212000

Brass

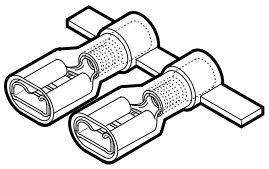


Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-F305	2,8 x 0,5	2.000
	CRP-F308	2,8 x 0,8	2.000
	CRP-F405	4,8 x 0,5	2.000
	CRP-F408	4,8 x 0,8	2.000
	CRP-F608	6,35 x 0,8	2.000
1,5÷2,5 (16÷14)	CBP-F405	4,8 x 0,5	1.750
	CBP-F408	4,8 x 0,8	1.750
	CBP-F608	6,35 x 0,8	1.750
4÷6 (12÷10)	CGP-F608	6,35 x 0,8	1.250

female disconnect terminals fully insulated

c UL us File no. E212000

Brass



Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-F405P♦	4,8 x 0,5	2.000
	CRP-F408P♦	4,8 x 0,8	2.000
	CRP-F608P	6,35 x 0,8	1.500
1,5÷2,5 (16÷14)	CBP-F408P♦	4,8 x 0,8	1.500
	CBP-F608P	6,35 x 0,8	1.500
4÷6 (12÷10)	CGP-F608P	6,35 x 0,8	1.250

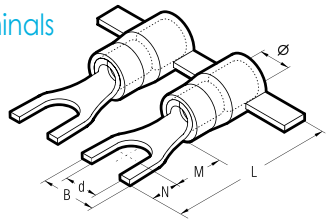
♦Not UL approved **Made to order*

INSULATED CHAIN TERMINALS

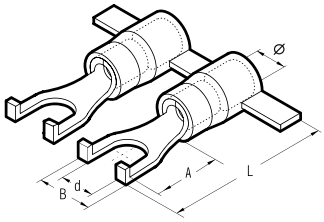
CP range with easy entry - for Copper conductors

CRP CBP CGP

fork/spade terminals

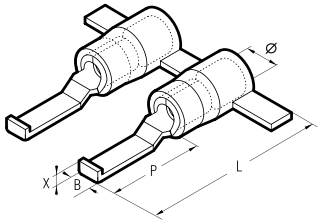


Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	CRP-U3	4,0	5,5	5,5	4,0	19,6	3,2	2.000
	3,5	CRP-U3.5	4,0	6,0	6,5	3,8	20,4	3,7	2.000
	3,5	CRP-U3.5/2*	4,0	6,4	6,5	3,8	20,4	3,7	2.000
	4	CRP-U4	4,0	6,5	7,5	3,7	21,3	4,3	2.000
	4	CRP-U4/1*	4,0	8,5	7,5	3,7	21,3	4,3	2.000
	4	CRP-U4/2*	4,0	7,5	7,5	3,7	21,3	4,3	2.000
	5	CRP-U5	4,0	8,5	7,5	3,7	21,3	5,3	2.000
	6	CRP-U6	4,0	9,4	8,1	4,7	22,9	6,4	2.000
	6	CRP-U6/1*	4,0	12,0	9,2	7,1	26,4	6,4	2.000
	8	CRP-U8*	4,0	14,0	10,0	6,3	26,4	8,4	2.000
1,5÷2,5 (16÷14)	3	CBP-U3	4,9	5,5	5,5	4,0	19,6	3,2	1.750
	3,5	CBP-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	1.750
	4	CBP-U4	4,9	6,5	7,5	3,7	21,3	4,3	1.750
	4	CBP-U4/1*	4,9	8,5	7,5	3,7	21,3	4,3	1.750
	4	CBP-U4/2*	4,9	7,5	7,5	3,7	21,3	4,3	1.750
	5	CBP-U5	4,9	8,5	7,5	3,7	21,3	5,3	1.750
	6	CBP-U6	4,9	9,4	8,1	4,7	22,9	6,4	1.750
4÷6 (12÷10)	3,5	CGP-U3.5*	6,6	7,5	8,5	3,9	26,5	3,7	1.250
	4	CGP-U4*	6,6	7,5	8,0	4,4	26,5	4,3	1.250
	5	CGP-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.250
	6	CGP-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.250



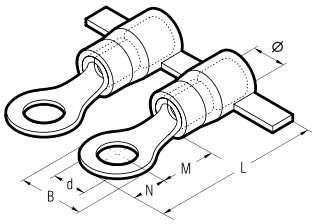
Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity
			Ø	B	A	L	d	
1,5÷2,5 (16÷14)	4	CBP-U 4/3L♦	4,9	6,5	9,5	14,5	4,3	1.750

hooked blade terminals



Cond. Size sqmm (AWG)	Type	Dimensions mm					Quantity
		Ø	B	P	L	X	
0,25÷1,5 (22÷16)	CRP-PPL30♦	4,0	3,0	17,5	28,8	1,7	2.000
1,5÷2,5 (16÷14)	CBP-PPL30♦	4,9	3,0	17,5	28,8	1,7	1.750

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	CRP-M3	4,0	5,6	4,5	2,8	17,4	3,2	2.000
	3,5	CRP-M3.5*	4,0	5,6	4,5	2,8	17,4	3,7	2.000
	3,5	CRP-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	2.000
	4	CRP-M4	4,0	7,0	6,5	3,5	20,1	4,3	2.000
	4	CRP-M4/3*	4,0	7,8	7,1	3,9	21,1	4,3	2.000
	5	CRP-M5	4,0	7,8	7,1	3,9	21,1	5,3	2.000
	6	CRP-M6	4,0	9,4	8,1	4,7	22,9	6,4	2.000
	6	CRP-M6/1*	4,0	12,0	10,3	6,0	26,4	6,4	2.000
	7	CRP-M7	4,0	9,4	8,1	4,7	22,9	7,2	2.000
	8	CRP-M8	4,0	12,0	10,3	6,0	26,4	8,4	2.000
1,5÷2,5 (16÷14)	3	CBP-M3	4,9	5,6	5,0	2,8	17,9	3,2	1.750
	3,5	CBP-M3.5	4,9	5,6	5,0	2,8	17,9	3,7	1.750
	3,5	CBP-M3.5/1*	4,9	6,2	6,5	3,1	19,6	3,7	1.750
	4	CBP-M4	4,9	8,0	6,5	4,0	20,6	4,3	1.750
	5	CBP-M5	4,9	8,0	7,5	4,0	21,6	5,3	1.750
	6	CBP-M6	4,9	9,4	8,6	4,7	23,4	6,4	1.750
	6	CBP-M6/1*	4,9	12,0	10,3	6,0	26,4	6,4	1.750
	7	CBP-M7	4,9	10,0	7,8	5,0	22,9	7,2	1.750
	8	CBP-M8	4,9	12,0	10,3	6,0	26,4	8,4	1.750
4÷6 (12÷10)	3	CGP-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.250
	3,5	CGP-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.250
	4	CGP-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.250
	5	CGP-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.250
	6	CGP-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.250
	6	CGP-M6/1*	6,6	11,0	8,1	5,5	27,7	6,4	1.250
	7	CGP-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000
	8	CGP-M8	6,6	13,6	12,1	6,8	33,0	8,4	1.250
	8	CGP-M8/1*	6,6	11,0	8,1	5,5	27,7	8,4	1.250
	10	CGP-M10	6,6	13,6	12,1	6,8	33,0	10,5	1.250



Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 228).

♦*Not UL approved* **Made to order*

CEMBRE

RKY BKY GKY

REINFORCED PA 6.6 INSULATED TERMINALS

KY range - for Copper conductors



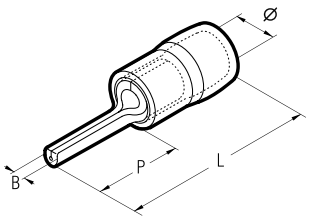
PA6.6 | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +105°C | RADIAL

'KY' type terminals are designed to offer improved mechanical and electrical integrity under heavy-duty application.
This is achieved via a Copper sleeve located between the Copper barrel and Polyamide insulation (type PA10180 certified EN45545-2) of the terminal. Then, during crimping, the insulation of the conductor is integrated into the crimp due to the Copper sleeve being deformed around it to maintain the level of 'grip' required in applications subject to continuous mechanical vibrations (e.g: mobile plant, vehicles, moving components).
The operating temperature range is – 20 to + 105°C (Surge + 110°C).
Recommended crimping tools are shown on pages 188 to 225, 312.



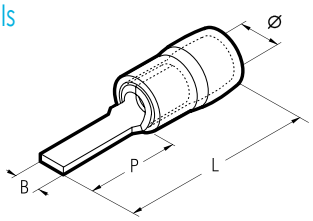
EN 45545-2 | HF HALOGEN FREE

pin terminals



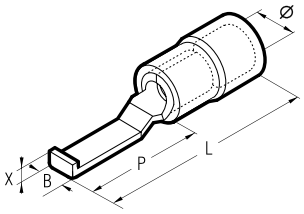
Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RKY-P8	4,5	1,9	9,0	19,8	3.000/100
	RKY-P10	4,5	1,9	10,0	20,8	3.500/100
	RKY-P12	4,5	1,9	12,0	22,8	3.000/100
 1,5÷2,5 (16÷14)	BKY-P8	5,2	1,9	9,0	19,8	3.000/100
	BKY-P10	5,2	1,9	10,0	20,8	3.000/100
	BKY-P12	5,2	1,9	12,0	22,8	3.000/100
 4÷6 (12÷10)	GKY-P14	7,0	2,8	14,0	27,0	1.000/100

blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RKY-PP12	4,5	3,0	13,0	23,8	3.000/100
	RKY-PP12/19	4,5	2,0	18,0	28,8	3.000/100
	RKY-PP16/23	4,5	2,2	18,0	28,8	2.500/100
 1,5÷2,5 (16÷14)	BKY-PP12	5,2	3,0	13,0	23,8	2.500/100
	BKY-PP12/25	5,2	2,4	13,0	23,8	2.000/100
	BKY-PP16/23	5,2	2,2	18,0	28,8	2.500/100
 4÷6 (12÷10)	GKY-PP12	7,0	4,0	14,0	27,0	1.000/100
	GKY-PP17	7,0	2,0	18,0	31,0	1.000/100

hooked blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	X	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RKY-PPL30	4,5	3,0	16,8	28,2	2,1	3.000/100
	RKY-PPL46	4,5	4,6	16,8	28,2	2,1	3.000/100
 1,5÷2,5 (16÷14)	BKY-PPL30	5,2	3,0	16,8	28,2	2,1	2.500/100
	BKY-PPL46	5,2	4,6	16,8	28,2	2,1	2.500/100
 4÷6 (12÷10)	GKY-PPL46	7,0	4,6	17,2	30,2	2,4	1.000/100

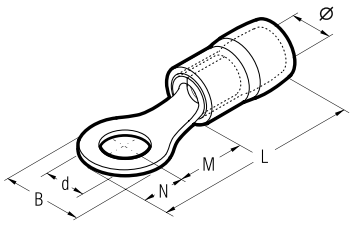
Consult CEMBRE for a wider range of pin and blade dimensions.

REINFORCED PA 6.6 INSULATED TERMINALS

KY range - for Copper conductors

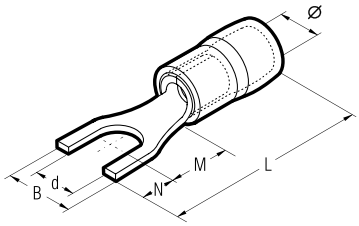
RKY BKY GKY

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	RKY-M3	4,5	5,5	5,0	2,5	18,5	3,2	3.000/100
	3,5	RKY-M3.5	4,5	5,5	5,0	2,5	18,5	3,7	3.000/100
	3,5	RKY-M3.5/1	4,5	6,6	6,3	3,1	20,4	3,7	3.000/100
	4	RKY-M4	4,5	6,6	6,3	3,1	20,4	4,3	3.000/100
	5	RKY-M5	4,5	8,0	7,0	3,8	21,8	5,3	2.500/100
	6	RKY-M6/1	4,5	11,6	11,0	5,8	27,8	6,4	2.000/100
	8	RKY-M8	4,5	11,6	11,0	5,8	27,8	8,4	2.500/100
	10	RKY-M10	4,5	13,6	13,9	6,6	31,5	10,5	1.500/100
	12	RKY-M12	4,5	19,6	16,0	9,4	36,4	13,0	1.500/100
1,5÷2,5 (16÷14)	3	BKY-M3	5,2	6,6	4,8	3,0	18,8	3,2	2.500/100
	3,5	BKY-M3.5	5,2	6,6	4,8	3,0	18,8	3,7	2.500/100
	3,5	BKY-M3.5/1	5,2	6,6	6,3	3,1	20,4	3,7	2.500/100
	4	BKY-M4	5,2	8,5	7,8	4,0	22,8	4,3	2.500/100
	5	BKY-M5	5,2	8,5	7,8	4,0	22,8	5,3	2.500/100
	6	BKY-M6/1	5,2	12,0	11,0	5,8	27,8	6,4	2.000/100
	8	BKY-M8	5,2	12,0	11,0	5,8	27,8	8,4	1.500/100
	10	BKY-M10	5,2	13,6	13,9	6,6	31,5	10,5	1.500/100
	12	BKY-M12	5,2	19,2	16,0	9,4	36,4	13,0	1.000/100
4÷6 (12÷10)	3,5	GKY-M3.5	7,0	7,2	6,1	3,6	22,7	3,7	1.000/100
	4	GKY-M4	7,0	9,5	9,1	4,5	26,6	4,3	1.000/100
	5	GKY-M5	7,0	9,5	9,1	4,5	26,6	5,3	1.000/100
	6	GKY-M6	7,0	12,0	10,5	6,0	29,5	6,4	1.000/100
	8	GKY-M8	7,0	15,0	13,5	7,5	34,0	8,4	1.000/100
	10	GKY-M10	7,0	15,0	13,5	7,5	34,0	10,5	1.000/100
	12	GKY-M12	7,0	19,2	16,0	9,6	38,6	13,0	1.000/100
	14	GKY-M14	7,0	32,0	25,2	16,0	54,2	15,0	500/100
	16	GKY-M16	7,0	32,0	25,2	16,0	54,2	17,0	500/100

fork/spade terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	RKY-U3	4,5	5,7	6,5	4,5	22,0	3,2	2.500/100
	3,5	RKY-U3.5	4,5	5,7	6,5	4,5	22,0	3,7	2.500/100
	4	RKY-U4	4,5	6,4	6,5	4,5	22,0	4,3	3.000/100
	5	RKY-U5	4,5	8,1	6,5	4,5	22,0	5,3	3.000/100
	6	RKY-U6	4,5	9,5	6,5	4,5	22,0	6,4	2.000/100
	6	RKY-U6/1	4,5	12,0	11,0	6,0	28,0	6,4	2.000/100
1,5÷2,5 (16÷14)	3	BKY-U3	5,2	5,7	6,5	4,5	22,0	3,2	2.500/100
	3,5	BKY-U3.5	5,2	6,0	6,5	4,5	22,0	3,7	2.500/100
	4	BKY-U4	5,2	6,4	6,5	4,5	22,0	4,3	2.500/100
	5	BKY-U5	5,2	7,9	6,5	4,5	22,0	5,3	2.000/100
	6	BKY-U6	5,2	9,3	6,5	4,5	22,0	6,4	2.000/100
	6	BKY-U6/1	5,2	12,0	11,0	6,0	28,0	6,4	2.000/100
4÷6 (12÷10)	3,5	GKY-U3.5	7,0	7,2	7,5	3,9	24,4	3,7	1.000/100
	4	GKY-U4	7,0	7,2	7,5	3,9	24,4	4,3	1.000/100
	5	GKY-U5	7,0	9,0	7,0	5,5	25,5	5,3	1.000/100
	6	GKY-U6	7,0	12,0	12,0	6,5	31,5	6,4	1.000/100
	8	GKY-U8	7,0	14,0	10,5	7,0	30,5	8,4	1.000/100

Consult CEMBRE for a wider range of pin and blade dimensions.

CEMBRE

RKF-F BKF-F GK-F



PA6.6 | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +105°C | RADIAL

REINFORCED DISCONNECT TERMINALS

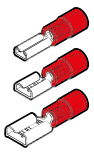
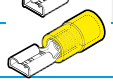
for Copper conductors

Recommended crimping tools are shown on pages 188 to 225, 312.

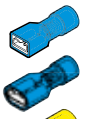
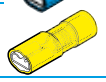
HF HALOGEN FREE

female connectors, fully reinforced with Copper sleeve

PA6.6 insulated terminals

Conductor Size sqmm (AWG)		Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		RKF-F305	2,8 x 0,5	3.000/100
		RKF-F308	2,8 x 0,8	3.000/100
		RKF-F405	4,8 x 0,5	2.500/100
		RKF-F408	4,8 x 0,8	2.500/100
		RKF-F608	6,35 x 0,8	2.500/100
1,5÷2,5 (16÷14)		BKF-F405	4,8 x 0,5	2.500/100
		BKF-F408	4,8 x 0,8	2.500/100
		BKF-F608	6,35 x 0,8	2.000/100
4÷6 (12÷10)		GK-F608	6,35 x 0,8	1.500/100

PA6.6 fully insulated terminals

Conductor Size sqmm (AWG)		Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		RKF-F405P	4,8 x 0,5	1.500/100
		RKF-F408P	4,8 x 0,8	2.000/100
		RKF-F608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)		BKF-F405P	4,8 x 0,5	1.500/100
		BKF-F408P	4,8 x 0,8	2.000/100
		BKF-F608P	6,35 x 0,8	1.000/100
4÷6 (12÷10)		GK-F608P	6,35 x 0,8	1.000/100

RKF BKF GKF



PA6.6 | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +105°C | RADIAL

REINFORCED DISCONNECT TERMINALS

for Copper conductors

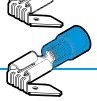
male connectors, fully reinforced with Copper sleeve - PA6.6 insulated terminals

Conductor Size sqmm (AWG)		Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		RKF-M608	6,35 x 0,8	3.000/100
1,5÷2,5 (16÷14)		BKF-M608	6,35 x 0,8	2.500/100
4÷6 (12÷10)		GKF-M608	6,35 x 0,8	1.000/100

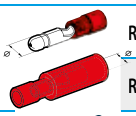
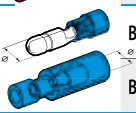
Recommended crimping tools are shown on pages 188 to 225, 312.

HF HALOGEN FREE

male/female connectors, fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size sqmm (AWG)		Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		RKF-FM608	6,35 x 0,8	1.500/100
1,5÷2,5 (16÷14)		BKF-FM608	6,35 x 0,8	1.500/100

bullet and socket connectors fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size sqmm (AWG)		Type	Ø mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		RKF-BM4	4,0	2.500/100
		RKF-BF4	3,95	1.000/100
1,5÷2,5 (16÷14)		BKF-BM4	4,0	2.000/100
		BKF-BF4	3,95	800/100

RN-FA BN-FA

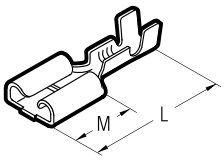


Brass | -40°C +125°C | INDENT

FEMALE CONNECTORS

for Copper conductors

Recommended crimping tools are shown on pages 188 to 225, 312.



Conductor Size sqmm (AWG)	Type	Tab Size mm	M mm	L mm	Quantity Box/Bag
0,5÷1 (20÷17)	RN-FA305	2,8 x 0,5	6,3	15,0	6.000/100
	RN-FA405	4,8 x 0,5	6,3	15,0	5.000/100
	RN-FA608	6,3 x 0,8	7,7	19,0	3.000/100
1÷2,5 (17÷14)	BN-FA608	6,3 x 0,8	7,7	19,0	2.000/100
	BN-FAB608*	6,3 x 0,8	7,7	15,5	2.000/100
	BN-FAR608**	6,3 x 0,8	7,7	19,0	3.000/100

*flag type **with retainer

MALE CONNECTORS

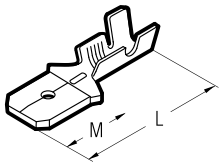
open barrel - for Copper conductors

RN-MA
BN-MA



Conductor Size sqmm (AWG)	Type	Tab Size mm	M mm	L mm	Quantity Box/Bag
0,5÷1 (20÷17)	RN-MA305	2,8 x 0,5	5,8	13,0	6.000/100
	RN-MA405	4,8 x 0,5	6,3	17,3	5.000/100
	RN-MA608	6,3 x 0,8	7,9	19,7	4.000/100
1÷2,5 (17÷14)	BN-MA608	6,3 x 0,8	7,9	20,0	4.000/100

Recommended crimping tools are shown on pages 188 to 225, 312.



Brass | -40°C +125°C | INDENT

MALE TABS

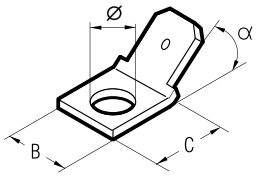
for board mounting - for Copper conductors

MP
MPD



Type	Tab Size mm	Ø Stud mm	B mm	C mm	α	Quantity Box/Bag
MP608	6,3 x 0,8	4,0	8,0	11,0	0°	5.000/100
MP608/45	6,3 x 0,8	4,0	8,0	8,5	45°	6.000/100
MP608/90	6,3 x 0,8	4,0	8,0	8,5	90°	5.000/100
MP608D*	6,3 x 0,8	5,0	8,0	14,0	0°	5.000/100

*double tab



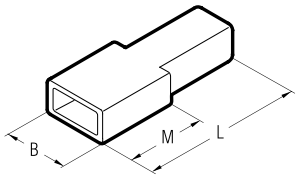
Brass | -40°C +125°C

CONNECTOR SLEEVES

CFA
CMA



Type	Connector	B mm	M mm	L mm	Material	Quantity Box/Bag
CFA300	Female 2,8	5,5	7	18	Polyethylene	3.000/100
CFA400*	Female 4,8	7,5	9	20	Polyethylene	2.000/100
CFA600*	Female 6,3	9,0	11	24	Polyethylene	1.000/100
CFA2-600**	Female 6,3	9,0	9	22	Polyethylene	1.000/100
CFAR600	Female 6,3 with retainer	9,0	12	25	Polyamide 6.6	500/100
CFAB600	Female 6,3 flag	10,0	–	18	Polyamide 6.6	500/50
CMA600*	Male 6,3	12,0	11	22	Polyethylene	500/100



*For a single cable.
Colours available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N

**For twin cables.
Colours available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N
Green: add suffix V
Blue: add suffix B
Yellow: add suffix G

Max operating temperature:

- CFA300; CFA400; CFA600; CFA2-600; CMA600 (PE) 65°C
- CFAR600; CFAB600 (PA6.6) 105°C

CEMBRE

PKD

PA6 INSULATED END SLEEVES

for flexible Copper conductors

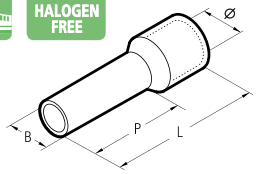


PA6 | Cu | ANNEALED | 3µm TIN PLATED | -20°C +120°C | TRAPEZIUM | SQUARE

The PK.. range of end sleeves is manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%. The PA6 insulation type PA10080 is certified EN45545-2. Designed and developed to reinforce fine wire strands when terminating a cable into a connector block. The PKD series of insulated end sleeves comply with specification DIN 46228/4.
The operating temperature range is – 20 to + 120°C (Surge + 130°C). Recommended crimping tools are shown on pages 188 to 228, 279-281, 312, 314, 316-319.

UL CERTIFIED SAFETY US-CA E481745

EN 45545-2 | HF HALOGEN FREE



VALSTAR-N3
Comprising:
- a selection of end sleeves PKD conductor size 1÷6 sqmm
- Cable ties type G100X2
- tool ZKE610N.

VALSTAR-N2
Comprising:
- a selection of end sleeves PKE conductor size 1÷6 sqmm
- Cable ties type G100X2
- tool ZKE610N

VALSTAR-N1
Comprising:
- a selection of end sleeves PKC conductor size 1÷6 sqmm
- Cable ties type G100X2
- tool ZKE610N



Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,3÷0,5	PKD506	2,6	1,4	6,0	12,0	white	10.000/500
	PKD508	2,6	1,4	8,0	14,0		10.000/500
	PKD510	2,6	1,4	10,0	16,0		10.000/500
0,75	PKD7506	2,8	1,6	6,0	12,0	grey	10.000/500
	PKD7508	2,8	1,6	8,0	14,0		10.000/500
	PKD7510	2,8	1,6	10,0	16,0		10.000/500
	PKD7512	2,8	1,6	12,0	18,0		10.000/500
1	PKD106	3,0	1,8	6,0	12,0	red	10.000/500
	PKD108	3,0	1,8	8,0	14,0		10.000/500
	PKD110	3,0	1,8	10,0	16,0		10.000/500
	PKD112	3,0	1,8	12,0	18,0		8.000/500
1,5	PKD1508	3,5	2,1	8,0	14,0	black	5.000/500
	PKD1510	3,5	2,1	10,0	16,0		5.000/500
	PKD1512	3,5	2,1	12,0	18,0		5.000/500
	PKD1518	3,5	2,1	18,0	24,0		5.000/500
2,5	PKD2508	4,2	2,6	8,0	14,0	blue	5.000/500
	PKD2512	4,2	2,6	12,0	18,0		4.000/500
	PKD2518	4,2	2,6	18,0	24,0		5.000/500
4	PKD410	4,8	3,3	10,0	18,0	grey	3.000/200
	PKD412	4,8	3,3	12,0	20,0		3.000/200
	PKD418	4,8	3,3	18,0	26,0		3.000/200
6	PKD612	6,3	4,0	12,0	20,0	yellow	1.500/100
	PKD618	6,3	4,0	18,0	26,0		1.500/100
10	PKD1012	7,6	5,0	12,0	22,0	red	1.000/100
	PKD1018	7,6	5,0	18,0	28,0		1.000/100
16	PKD1612	8,8	6,4	12,0	24,0	blue	800/100
	PKD1618	8,8	6,4	18,0	28,0		800/100
25	PKD25016	11,2	7,9	16,0	30,0	yellow	400/50
	PKD25022	11,2	7,9	22,0	36,0		400/50
35	PKD35016	12,7	8,9	16,0	30,0	red	300/50
	PKD35025	12,7	8,9	25,0	39,0		300/50
50	PKD50020	15,0	11,0	20,0	36,0	blue	200/50
	PKD50025	15,0	11,0	25,0	41,0		150/50

PKE

PA6 INSULATED END SLEEVES

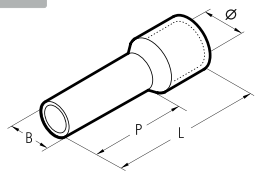
for flexible Copper conductors



PA6 | Cu | ANNEALED | 3µm TIN PLATED | -20°C +120°C | TRAPEZIUM | SQUARE

UL CERTIFIED SAFETY US-CA E481745

EN 45545-2 | HF HALOGEN FREE



Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,1÷0,3	PKE308♦	1,9	1,1	8,0	12,0	yellow	20.000/500
0,3÷0,5	PKE508*	2,6	1,4	8,0	14,0	white	10.000/500
0,75	PKE7508	2,8	1,6	8,0	14,0	blue	10.000/500
1	PKE108*	3,0	1,8	8,0	14,0	red	10.000/500
1,5	PKE1508*	3,5	2,1	8,0	14,0	black	5.000/500
	PKE1510*	3,5	2,1	10,0	16,0		5.000/500
	PKE1518*	3,5	2,1	18,0	24,0		5.000/500
2,5	PKE2508	4,2	2,6	8,0	14,0	grey	5.000/500
	PKE2512	4,2	2,6	12,0	18,0		4.000/500
	PKE2518	4,2	2,6	18,0	24,0		3.000/500
4	PKE410	4,8	3,3	10,0	18,0	orange	3.000/200
	PKE412	4,8	3,3	12,0	20,0		3.000/200
	PKE418	4,8	3,3	18,0	26,0		3.000/200
6	PKE612	6,3	4,0	12,0	20,0	green	1.500/100
	PKE618	6,3	4,0	18,0	26,0		1.500/100
10	PKE1012	7,6	5,0	12,0	22,0	brown	1.000/100
	PKE1018	7,6	5,0	18,0	28,0		1.000/100
16	PKE1612	8,8	6,2	12,0	23,0	ivory	800/100
	PKE1618	8,8	6,2	18,0	29,0		800/100
25	PKE25016	11,2	7,9	16,0	30,0	black	400/50
	PKE25022	11,2	7,9	22,0	36,0		400/50

*to DIN standard 46 228/4 ♦Not UL approved

PA6 INSULATED END SLEEVES

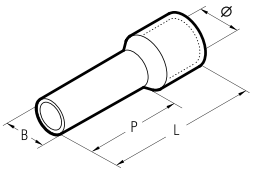
for flexible Copper conductors

PKC



Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,1÷0,3	PKC306♦	1,9	1,1	6,0	10,0	turquoise	20.000/500
	PKC308♦	1,9	1,1	8,0	12,0		20.000/500
0,3÷0,5	PKC508	2,6	1,4	8,0	14,0	orange	10.000/500
	PKC510	2,6	1,4	10,0	16,0		10.000/500
0,75	PKC7508	2,8	1,6	8,0	14,0	white	10.000/500
	PKC7512	2,8	1,6	12,0	18,0		10.000/500
1	PKC108	3,0	1,8	8,0	14,0	yellow	10.000/500
	PKC112	3,0	1,8	12,0	18,0		7.500/500
1,5	PKC1508	3,5	2,1	8,0	14,0	red	5.000/500
	PKC1510	3,5	2,1	10,0	16,0		5.000/500
	PKC1518	3,5	2,1	18,0	24,0		5.000/500
2,5	PKC2508*	4,2	2,6	8,0	14,0	blue	5.000/500
	PKC2512*	4,2	2,6	12,0	18,0		5.000/500
	PKC2518*	4,2	2,6	18,0	24,0		5.000/500
4	PKC410*	4,8	3,3	10,0	18,0	grey	3.000/200
	PKC412*	4,8	3,3	12,0	20,0		3.000/200
	PKC418*	4,8	3,3	18,0	26,0		3.000/200
6	PKC612	6,3	4,0	12,0	20,0	black	1.500/100
	PKC618	6,3	4,0	18,0	26,0		1.500/100
10	PKC1012	7,6	5,0	12,0	22,0	ivory	1.000/100
	PKC1018	7,6	5,0	18,0	28,0		1.000/100
16	PKC1612	8,8	6,2	12,0	23,0	green	800/100
	PKC1618	8,8	6,2	18,0	29,0		800/100
25	PKC25016	11,2	7,9	16,0	30,0	brown	400/50
	PKC25022	11,2	7,9	22,0	36,0		500/50
35	PKC35016	12,7	8,9	16,0	30,0	beige	300/50
	PKC35025	12,7	8,9	25,0	39,0		200/50
50	PKC50020	15,0	11,0	20,0	36,0	olive	200/50
	PKC50025	15,0	11,0	25,0	41,0		150/50
70	PKC70022♦	16,0	14,3	22,0	38,0	yellow	100/25
95	PKC95025♦	18,0	15,7	25,0	44,0	red	100/25
120	PKC120027♦	21,0	17,5	27,0	48,0	blue	75/25

*to DIN standard 46 228/4 ♦Not UL approved

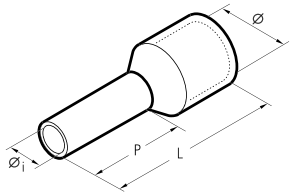


PA6 INSULATED END SLEEVES

for flexible Copper conductors with increased insulation diameter

PKK





Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
1,5	PKK1508	6,4	1,8	8,0	17,5	black	100
	PKK1510	6,4	1,8	10,0	19,5		100
2,5	PKK2508	7,3	2,3	8,0	17,5	blue	100
	PKK2512	7,3	2,3	12,0	21,5		100
4	PKK410	7,3	2,9	10,0	19,5	grey	100
6	PKK612	10,0	3,5	12,0	23,0	yellow	100
10	PKK1012	9,6	4,6	12,0	24,0	red	100
16	PKK1612	11,9	6,0	12,0	25,5	blue	100

The PKK.. range of end sleeves is manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%.

They were specially developed in dimensions for flexible copper conductors with increased insulation diameter. Insulating material made of PA6. The operating temperature range is – 20 to + 120°C (Surge + 130°C). Recommended crimping tools are shown on pages 188 to 228, 279-281, 312, 314, 316-319.

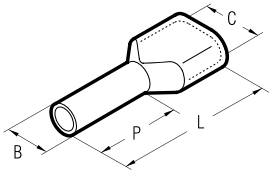
CEMBRE

PKT

"TWIN" PA6 INSULATED END SLEEVES

for fine stranded conductors



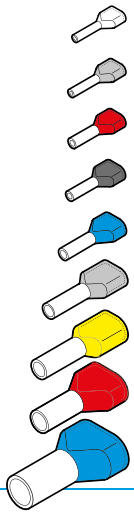


PA6 · Cu · ANNEALED · 3µm TIN PLATED · -20°C +120°C · TRAPEZIUM · SQUARE

Type PKT range of end sleeves is manufactured from Tin plated electrolytic Copper.
The PA6 insulation type PA10080 is certified EN45545-2.
Designed to accomodate two cables terminating in the same sleeve.
The operating temperature range is – 20 to + 120°C (Surge + 130°C).

Recommended crimping tools are shown on pages 188 to 228, 279-281, 312, 314, 316-319.

for International Market (excluding UK)

Conductor Size sqmm		Type	Dimensions mm C	B	P	L	Insulation Colour	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
2 x 0,5		PKT508	4,7x2,5	1,80	8,0	15,0	white	1	5.000/500
		PKT510♦	4,7x2,5	1,80	10,0	18,0			5.000/500
2 x 0,75		PKT7508	5,0x2,8	2,10	8,0	15,0	grey	1,5	2.500/100
		PKT7510	5,0x2,8	2,10	10,0	17,0			2.500/100
2 x 1		PKT108	5,4x3,4	2,35	8,0	15,0	red	2,5	2.500/100
		PKT110	5,4x3,4	2,35	10,0	17,0			2.500/100
2 x 1,5		PKT1508	6,6x3,6	2,50	8,0	16,0	black	2,5	2.500/100
		PKT1512	6,6x3,6	2,50	12,0	20,0			2.500/100
2 x 2,5		PKT2510	7,8x4,2	3,20	10,0	18,5	blue	4	2.000/100
		PKT2512	7,8x4,2	3,20	13,0	21,5			1.500/100
2 x 4		PKT412	8,8x4,9	4,10	12,0	23,0	grey	6	1.000/100
2 x 6		PKT614	10,0x6,9	5,20	14,0	26,0	yellow	10	800/100
2 x 10		PKT1014♦	13,0x7,2	6,70	14,0	26,0	red	16	500/50
2 x 16		PKT1614	18,4x9,6	8,90	14,0	30,0	blue	35	200/50

♦*Not UL approved*

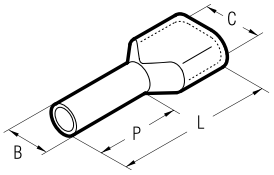
"TWIN" POLYPROPYLENE INSULATED END SLEEVES

for fine stranded conductors - for UK Market

PKET
PKCT



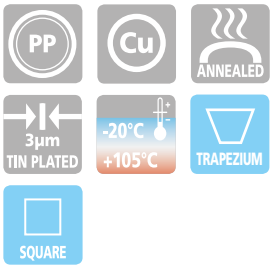
HF HALOGEN FREE



for UK Market

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
		C	B	P	L			
2 x 0,5	**PKET508**	4,6x2,4	1,8	8,0	15,0	white	1	500
2 x 0,75	**PKET7508**	5,4x2,7	2,1	8,0	15,0	blue	1,5	500
	PKET7512	5,4x2,7	2,1	12,0	19,0			500
2 x 1	**PKET108**	5,3x2,3	2,35	8,0	15,0	red	2,5	500
	PKET112	5,3x3,3	2,35	12,0	19,0			500
2 x 1,5	**PKET1508**	6,5x3,5	2,6	8,0	16,0	black	2,5	500
	PKET1512	6,5x3,5	2,6	12,0	20,0		2,4	500
2 x 2,5	**PKET2510**	7,7x4,1	3,3	10,0	19,0	grey	4	250
	PKET2512	7,7x4,1	3,3	12,0	22,0			250
2 x 4	**PKET412**	8,7x4,9	4,2	12,0	23,0	orange	6	100
2 x 6	**PKET614**	9,9x6,1	5,3	14,0	25,0	green	10	100
2 x 10	**PKET1014**	12,9x7,1	6,9	14,0	26,0	brown	16	100
2 x 16	**PKET1616**	16,8x9,8	8,9	16,0	31,0	white	35	100

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
		C	B	P	L			
2 x 0,5	**PKCT508**	4,6x2,4	1,8	8,0	15,0	orange	1	500
2 x 0,75	**PKCT7508**	5,4x2,7	2,1	8,0	15,0	white	1,5	500
	PKCT7512	5,4x2,7	2,1	12,0	19,0			500
2 x 1	**PKCT108**	5,3x2,3	2,35	8,0	15,0	yellow	2,5	500
	PKCT112	5,3x3,3	2,35	12,0	19,0			500
2 x 1,5	**PKCT1508**	6,5x3,5	2,6	8,0	16,0	red	2,5	500
	PKCT1512	6,5x3,5	2,6	12,0	20,0		2,4	500
2 x 2,5	**PKCT2510**	7,7x4,1	3,3	10,0	19,0	blue	4	250
	PKCT2512	7,7x4,1	3,3	12,0	22,0			250
2 x 4	**PKCT412**	8,7x4,9	4,2	12,0	23,0	grey	6	100
2 x 6	**PKCT614**	9,9x6,1	5,3	14,0	25,0	black	10	100
2 x 10	**PKCT1014**	12,9x7,1	6,9	14,0	26,0	ivory	16	100
2 x 16	**PKCT1616**	16,8x9,8	8,9	16,0	31,0	green	35	100



Type PKET, PKCT ranges of twin end sleeves are manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%.
Designed to accomodate two cables terminating in the same sleeve they are ideal for looping conductors.
The operating temperature range is – 20 to + 105°C (Surge + 110°C).

Recommended crimping tools are shown on pages 188 to 228, 279-281, 312, 314, 316-319.

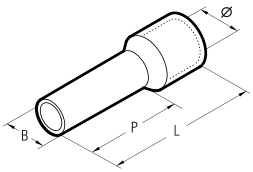
CEMBRE

CPKD
CPKC

POLYPROPYLENE INSULATED CHAIN END SLEEVES

for flexible Copper conductors





HF HALOGEN FREE

PP · Cu · ANNEALED · 3µm TIN PLATED · -20°C +115°C · TRAPEZIUM



Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,3÷0,5	CPKD508	2,6	1,3	8,0	14,0	white	5.000
0,75	CPKD7508	2,8	1,5	8,0	14,0	grey	5.000
0,75	CPKC7508	2,8	1,5	8,0	14,0	white	5.000
1	CPKD108	3,0	1,7	8,0	14,0	red	5.000
1,5	CPKD1508	3,5	2,0	8,0	14,0	black	5.000
2,5	CPKD2508	4,2	2,5	8,0	14,0	blue	3.000



Conforms to DIN standard 46228/4.

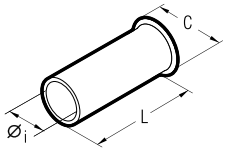
Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 228).

KE

UNINSULATED END SLEEVES

for flexible Copper conductors





Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · TRAPEZIUM · SQUARE

Conductor Size sqmm	Type	Dimensions mm Ø	L	C	Quantity Box/Bag
0,5	KE506ST*	1,0	6,0	1,9	50.000/500
	KE508ST	1,0	8,0	1,9	50.000/500
0,75	KE7506ST*	1,2	6,0	2,2	40.000/500
	KE7508ST	1,2	8,0	2,2	40.000/500
1	KE106ST*	1,4	6,0	2,4	25.000/500
	KE110ST*	1,4	10,0	2,4	25.000/500
1,5	KE1508ST	1,7	8,0	2,8	25.000/500
	KE1510ST*	1,7	10,0	2,8	25.000/500
2,5	KE2508ST	2,2	8,0	3,4	20.000/500
	KE2510ST*	2,2	10,0	3,4	15.000/500
4	KE410ST	2,8	10,0	4,0	12.500/500
	KE412ST*	2,8	12,0	4,0	10.000/500
6	KE610ST*	3,5	10,0	4,7	10.000/500
	KE612ST*	3,5	12,0	4,7	7.500/500
	KE616ST*	3,5	15,0	4,7	5.000/500
10	KE1016ST*	4,5	15,0	5,8	4.000/250
16	KE1616ST*	5,8	15,0	7,5	2.000/250
25	KE25015ST	7,3	15,0	9,5	1.500/100
	KE25018ST*	7,3	18,0	9,5	1.500/100
35	KE35012ST	8,3	12,0	10,5	1.500/100
	KE35015ST	8,3	16,0	10,5	1.500/100
	KE35018ST*	8,3	18,0	10,5	1.000/100

*to DIN standard 46 228/1

KE series end sleeves are manufactured from Tin plated electrolytic Copper of grade CW024A according to EN 12449, with purity greater than 99%. The compact geometry of the range allows for the termination of flexible conductors in confined spaces.

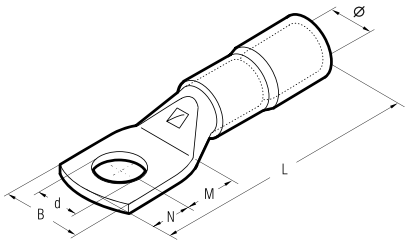
Recommended crimping tools are shown on pages 188 to 228, 279-281, 312, 314, 316-319.

COPPER TUBE CRIMPING LUGS PC INSULATED

for flexible Copper conductors - tested according to EN 45545-2:2013

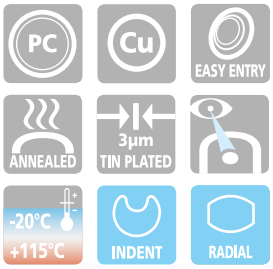
HF HALOGEN FREE

EN 45545





Conductor Size Flexible sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Insulation Colour	Quantity Box/Bag
			Ø	B	M	N	L	d		
0,25÷1,5 (22÷16)	3	P03-M3	4,0	6,0	4,5	3,5	22,0	3,2	Red	100
	3,5	P03-M3,5	4,0	6,5	4,5	3,5	22,0	3,7		100
	4	P03-M4	4,0	6,5	5,0	4,0	23,0	4,3		100
	5	P03-M5	4,0	7,5	5,5	4,5	24,0	5,3		100
	6	P03-M6	4,0	9,0	6,0	5,0	25,0	6,4		100
1,5÷2,5 (16÷14)	3	P06-M3	4,9	6,0	4,5	3,5	22,6	3,2	Blue	100
	3,5	P06-M3,5	4,9	6,5	4,5	3,5	22,6	3,7		100
	4	P06-M4	4,9	7,5	5,0	4,0	23,6	4,3		100
	5	P06-M5	4,9	8,5	5,5	4,5	24,6	5,3		100
	6	P06-M6	4,9	9,0	6,0	5,0	25,6	6,4		100
	8	P06-M8	4,9	12,0	9,0	8,0	31,3	8,4		100
4÷6 (12÷10)	3	P1-M3	6,7	7,5	4,5	3,5	28,0	3,2	yellow	100
	3,5	P1-M3,5	6,7	7,5	4,5	3,5	28,0	3,7		100
	4	P1-M4	6,7	8,0	5,0	4,0	30,0	4,3		100
	5	P1-M5	6,7	9,0	6,5	6,0	32,3	5,3		100
	6	P1-M6	6,7	11,0	7,0	6,0	32,8	6,4		100
	8	P1-M8	6,7	14,0	9,0	8,0	36,8	8,4		100
	10	P1-M10	6,7	16,5	11,0	10,0	41,4	10,5		100
	12	P1-M12	6,7	20,0	16,0	12,0	53,5	13,2		100



P-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the Polycarbonate insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The P-M series lugs have the insulating sleeve in EN45545-2 certified PC10500AC type Polycarbonate, a halogen-free thermoplastic characterized, among other things, by a particular molecular structure which gives greater toughness compared to PVC and PA6.6.

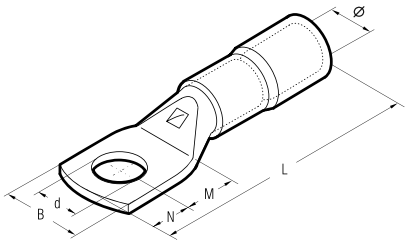
- The operating temperature range is – 20 to + 115°C (Surge + 130°C).
- To install the P-M series lugs, use the HP3 or HP5 tools (see pages 188-189).

ANE-M

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

for Copper conductors





c UL us File no. E125401

PA6.6 · Cu · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -20°C +115°C · INDENT · RADIAL

ANE-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.

Details of the appropriate crimping tools and dies are shown on pages 370 to 371.

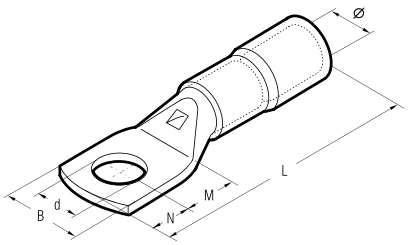
Cond. Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools HNN3	HNN4	TNN70	TNN120	Hydraulic Tools B15MD	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	4	ANE2-M4	8,0	10,0	5,0	4,0	34,1	4,3	500/100	●	●	●	●	●	●	●	●
	5	ANE2-M5	8,0	10,0	6,5	6,0	37,6	5,3	500/100	●	●	●	●	●	●	●	●
	6	ANE2-M6	8,0	11,0	7,0	6,0	38,1	6,4	500/100	●	●	●	●	●	●	●	●
	8	ANE2-M8	8,0	15,0	9,0	8,0	42,1	8,4	500/100	●	●	●	●	●	●	●	●
	10	ANE2-M10	8,0	18,0	11,0	10,0	46,1	10,5	500/100	●	●	●	●	●	●	●	●
	12	ANE2-M12	8,0	19,0	14,0	12,0	51,1	13,2	500/100	●	●	●	●	●	●	●	●
16	4	ANE3-M4	9,2	11,5	5,0	4,0	38,6	4,3	400/100		●	●	●	●	●	●	●
	5	ANE3-M5	9,2	11,5	6,5	6,0	42,1	5,3	400/100		●	●	●	●	●	●	●
	6	ANE3-M6	9,2	11,5	7,0	6,0	42,6	6,4	400/100		●	●	●	●	●	●	●
	8	ANE3-M8	9,2	15,0	9,0	8,0	46,6	8,4	400/100		●	●	●	●	●	●	●
	10	ANE3-M10	9,2	18,0	11,0	10,0	50,6	10,5	300/100		●	●	●	●	●	●	●
	12	ANE3-M12	9,2	20,0	14,0	12,0	55,6	13,2	300/100		●	●	●	●	●	●	●
25	4	ANE5-M4	11,1	14,0	5,0	4,0	41,0	4,3	300/100			●	●		●	●	●
	5	ANE5-M5	11,1	14,0	6,5	6,0	44,5	5,3	300/100			●	●		●	●	●
	6	ANE5-M6	11,1	14,0	7,0	6,0	45,0	6,4	300/100			●	●		●	●	●
	8	ANE5-M8	11,1	15,0	9,0	8,0	49,0	8,4	300/100			●	●		●	●	●
	10	ANE5-M10	11,1	18,0	11,0	10,0	53,0	10,5	200/100			●	●		●	●	●
	12	ANE5-M12	11,1	21,0	14,0	12,0	58,0	13,2	200/50			●	●		●	●	●
35	6	ANE7-M6	13,6	17,0	7,0	6,0	50,0	6,4	100/50			●	●		●	●	●
	8	ANE7-M8	13,6	17,0	9,0	8,0	54,0	8,4	100/50			●	●		●	●	●
	10	ANE7-M10	13,6	19,0	11,0	10,0	58,0	10,5	100/50			●	●		●	●	●
	12	ANE7-M12	13,6	21,0	14,0	12,0	63,0	13,2	100/50			●	●		●	●	●
50	6	ANE10-M6	13,8	19,0	8,0	7,0	53,0	6,4	150/50			●	●		●	●	●
	8	ANE10-M8	13,8	19,0	9,0	8,0	55,0	8,4	150/50			●	●		●	●	●
	10	ANE10-M10	13,8	20,0	11,5	9,5	59,0	10,5	150/50			●	●		●	●	●
	12	ANE10-M12	13,8	21,0	12,0	12,0	62,0	13,2	150/50			●	●		●	●	●
70	6	ANE14-M6	15,8	21,0	8,0	7,0	61,0	6,4	75/25			●	●		●	●	●
	8	ANE14-M8	15,8	21,0	9,0	8,0	63,0	8,0	75/25			●	●		●	●	●
	10	ANE14-M10	15,8	21,0	11,0	10,0	67,0	10,5	75/25			●	●		●	●	●
	12	ANE14-M12	15,8	22,0	14,0	12,0	72,0	13,2	75/25			●	●		●	●	●
	14	ANE14-M14	15,8	25,0	16,0	14,0	76,0	15,0	100/25			●	●		●	●	●
95	8	ANE19-M8	18,0	25,0	9,0	8,0	73,0	8,4	50/25				●		●	●	●
	10	ANE19-M10	18,0	25,0	11,0	10,0	77,0	10,5	50/25				●		●	●	●
	12	ANE19-M12	18,0	25,0	14,0	12,0	82,0	13,2	50/25				●		●	●	●
	14	ANE19-M14	18,0	25,0	16,0	14,0	86,0	15,0	50/25				●		●	●	●
	16	ANE19-M16	18,0	27,0	18,0	16,0	80,0	17,0	50/25				●		●	●	●
120	10	ANE24-M10	20,0	28,5	11,0	10,0	77,7	10,5	50/25				●		●	●	●
	12	ANE24-M12	20,0	28,5	14,0	12,0	86,5	13,2	50/25				●		●	●	●
	14	ANE24-M14	20,0	28,5	16,0	14,0	88,5	15,0	50/25				●		●	●	●
	16	ANE24-M16	20,0	28,5	18,0	16,0	90,5	17,0	50/25				●		●	●	●
150	12	ANE30-M12	23,0	31,5	16,0	14,0	101,0	13,2	20/10				●			●	●
	14	ANE30-M14	23,0	31,5	18,0	16,0	105,0	15,0	30/15				●			●	●
	16	ANE30-M16	23,0	31,5	19,0	17,0	107,0	17,0	30/15				●			●	●
	20	ANE30-M20	23,0	31,5	22,0	20,0	113,0	21,0	30/15				●			●	●

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

ANE-M

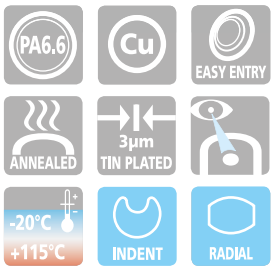
for extra flexible Copper conductors

for fine stranded • SPECIAL • flexible conductors





Conductor Size Extra Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools		
			Ø	B	M	N	L	d		TNN70	TNN120	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
35	6	ANE9-M6/15*	13,6	15,0	8,0	7,0	54,0	6,4	150/50					
	8	ANE9-M8	13,6	17,0	9,0	8,0	56,0	8,4	150/50					
	10	ANE9-M10	13,6	18,5	11,0	10.0	60,0	10,5	150/50					
	12	ANE9-M12	13,6	21,0	14,0	12,0	65,0	13,2	150/50					
50	6	ANE12-M6/15*	15,7	15,0	8,0	7,0	59,5	6,4	50/25					
	8	ANE12-M8	15,7	19,8	9,0	8,0	61,5	8,4	50/25					
	10	ANE12-M10	15,7	19,8	11,0	10,0	65,5	10,5	50/25					
	10	ANE12-M10/19*	15,7	19,0	11,0	10,0	65,5	10,5	50/25					
	12	ANE12-M12	15,7	22,0	14,0	12,0	70,5	13,2	50/25					
70	6	ANE17-M6	17,9	23,0	8,0	7,0	63,8	6,4	50/25					
	8	ANE17-M8	17,9	23,0	9,0	8,0	65,8	8,4	50/25					
	10	ANE17-M10	17,9	23,0	11,0	10,0	69,8	10,5	50/25					
	10	ANE17-M10/19*	17,9	19,0	11,0	10,0	69,8	10,5	100/25					
	12	ANE17-M12	17,9	23,0	14,0	12,0	74,8	13,2	50/25					
	14	ANE17-M14	17,9	25,0	15,5	12,0	76,3	15,0	50/25					
	16	ANE17-M16	17,9	27,0	16,5	13,5	78,8	17,0	50/25					
95	8	ANE20-M8	20,0	27,0	9,0	8,0	70,6	8,4	50/25					
	10	ANE20-M10	20,0	27,0	11,0	10,0	74,6	10,5	50/25					
	12	ANE20-M12	20,0	27,0	14,0	12,0	79,6	13,2	50/25					
	14	ANE20-M14	20,0	27,0	15,5	12,0	81,1	15,0	50/25					
	16	ANE20-M16	20,0	27,0	16,5	13,5	83,6	17,0	50/25					
120	10	ANE29-M10	22,4	30,0	11,0	10,0	81,5	10,5	30/15					
	12	ANE29-M12	22,4	30,0	14,0	12,0	86,5	13,2	30/15					
	14	ANE29-M14	22,4	30,0	15,5	12,0	88,5	15,0	50/25					
	16	ANE29-M16	22,4	30,0	16,5	13,5	90,5	17,0	50/25					
	20	ANE29-M20	22,4	30.0	22,0	20,0	102,5	21,0	40/20					
150	12	ANE35-M12	25,0	34,2	16,0	14,0	95,0	13,2	30/15					
	14	ANE35-M14	25,0	34,2	18,0	16,0	99,0	15,0	30/15					
	16	ANE35-M16	25,0	34,2	19,0	17,0	101,0	17,0	30/15					
	20	ANE35-M20	25,0	34,2	22,0	20,0	107,0	21,0	30/15					



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.
ANE-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.

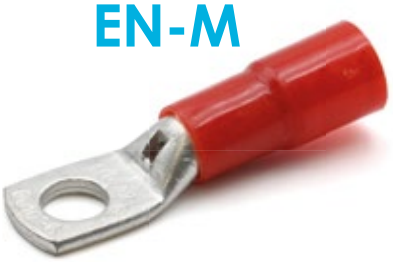
Details of the appropriate crimping tools and dies are shown on pages 370 to 371.

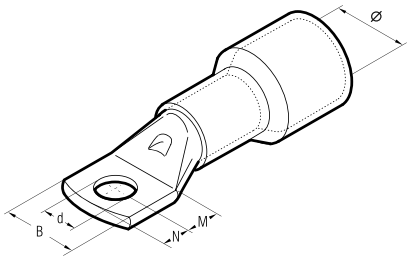
CEMBRE

AN-M
IN-M
EN-M

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

for Copper conductors





PA6.6 · Cu · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -4°F +239°F · INDENT · RADIAL

These terminals are particularly recommended for use with flexible conductors.
They are manufactured from electrolytic copper tube with a purity greater than 99.9% and with dimension so as to ensure both a good electrical connection and an adequate resistance to vibrations and traction; they are annealed and tin plated.
For the same cable section are available different types of connectors with PA6.6 sleeve entry of different diameters so as to accept conductors with various insulation thickness.
The insulated sleeve additionally will accept the conductor so avoiding a sudden bending of the conductor itself at the connector entry, highly increasing its resistance to the mechanical solicitations that could break the conductor strands.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

- **To complete the type of connectors add the screw diameter expressed in mm to the M reference.**
- **The M, N, and B dimensions concerning the palm are the same as the A-M connector ones.**

These connectors can be used also on low stranded conductors if crimped with radial containment dies of the MN..RF-C series.

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE (see page 370 to 371).

Conductor Size mm²	Type	Insulation Ø mm	Insulation colour	Mechanical Tools: HNN3	HNN4	TNN70 TNN71	TNN 120	Hydraulic Tools: B15MD	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
1,5÷2,5 F	AN06-M.....	4,1	blue	●							
	IN06-M.....	5,3	green	●							
	ENR06-M.....	6,0	blue	●							
	EN06-M.....	6,9	blue	●							
4÷6 F	AN1-M.....	5,3	yellow	●							
	IN1-M.....	6,6	neutral	●							
	ON1-M.....	7,6	blue	●							
	UN1-M.....	8,7	blue	●							
	EN1-M.....	14,1	red	●							
10 F 10 R	AN2-M.....	8,0	red	●	●			●			
	IN2-M.....	10,8	blue	●	●			●			
	ENR2-M.....	12,5	blue	●	●			●			
	EN2-M.....	15,1	red	●	●			●			
16 F 16 R	AN3-M.....	9,2	blue		●			●			
	EN3-M.....	11,7	blue		●			●			
	IN3-M.....	16,9	red		●			●			
25 F 25 R	AN5-M.....	11,1	yellow			●			●		
25÷35 F 35 R	AN7-M.....	11,9	red			●			●		
	EN7-M.....	13,0	blue			●			●		
	IN7-M.....	18,7	red			●			●		
35 F 50 R	AN10-M.....	13,8	neutral			●			●		
	IN10-M.....	15,0	blue			●			●		
	ENR10-M.....	17,3	blue			●			●		
	EN10-M.....	20,2	red			●			●		
50 F 70 R	AN14-M.....	15,8	blue			●			●		
	IN14-M.....	16,9	blue			●			●		
	EN14-M.....	21,9	red			●			●		
70 F 95 R	AN19-M.....	18,0	blue			●			●		
	EN19-M.....	19,6	blue			●			●		
	IN19-M.....	24,3	red			●			●		
95 F 120 R	AN24-M.....	20,0	red				●		●		
	IN24-M.....	22,2	blue				●		●		
	EN24-M.....	27,1	red				●		●		
120 F 150 R	AN30-M.....	23,0	red				●			●	
	EN30-M.....	24,5	blue				●			●	
	IN30-M.....	29,0	red				●			●	
150 F 185 R	INR37-M.....	29,0	blue							●	
	IN37-M.....	31,6	red							●	
185 F	EN48-M.....	29,4	red							●	
	IN48-M.....	34,5								●	
240 F	EN60-M.....	33,5	red							●	
	IN60-M.....	38,0								●	
300 F	EN80-M.....	37,7	blue								●
	IN80-M.....	41,1	red								●

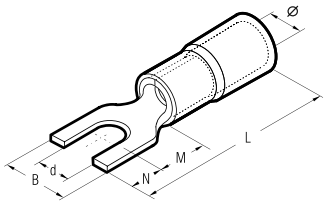
R = Rigid conductor F = Flexible conductor

POLYAMIDE PA6.6 INSULATED FORK TERMINALS

ANE-U

for Copper conductors





Conductor Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools			
			Ø	B	M	N	L	d		HNN3	HNN4	TNN70	TNN120	B15MD	HT51 B500 RH50 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	4	ANE2-U4	8,0	9,8	7,5	7,0	35,1	4,3	500/100								
	5	ANE2-U5	8,0	11,5	7,5	7,0	35,1	5,3	500/100								
16	4	ANE3-U4	9,2	10,0	10,0	8,0	41,1	4,3	400/100								
	5	ANE3-U5	9,2	11,5	10,0	8,0	41,1	5,3	400/100								

PA6.6 | Cu-ETP | Brazed SEAM | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | INDENT | RADIAL

ANE-U series terminals are made from electrolytic Copper with a purity greater than 99.9%, rolled, Tin plated and brazed.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

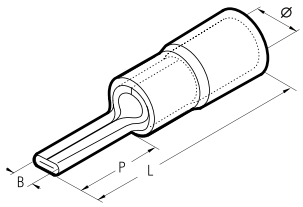
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.
Details of the appropriate crimping tools and dies are shown on pages 370 to 371.

POLYAMIDE PA6.6 INSULATED PIN TERMINALS

ANE-P

for Copper conductors





Conductor Size Flexible sqmm	Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools				Hydraulic Tools			
		Ø	B	P	L		HNN3	HNN4	TNN70	TNN120	B15MD	HT51 B500 RH50 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	ANE2-P12	8,0	4,3	14,5	35,1	500/100								
16	ANE3-P14	9,2	5,5	18,0	41,1	400/100								
25	ANE5-P16	11,1	7,0	20,3	45,0	300/100								
35	ANE7-P20	13,6	8,0	24,5	55,0	150/50								

PA6.6 | Cu-ETP | Brazed SEAM | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | INDENT | RADIAL

ANE-P series terminals are made from electrolytic Copper with a purity greater than 99.9%, rolled, Tin plated and brazed.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.
Details of the appropriate crimping tools and dies are shown on pages 370 to 371.

CEMBRE

UNINSULATED TERMINALS

S range - brazed seam - for Copper conductors



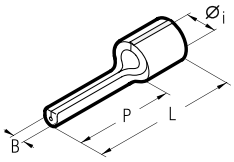
Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT

S range terminals are manufactured from electrolytic Copper strip with a purity greater than 99.9% and Tin plated.

The seam is brazed to provide uniform mechanical strength.
The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.

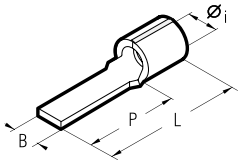
Recommended crimping tools are shown on pages 188 to 225, 312.

pin terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	**S1.5-P8**	1,8	1,6	8,0	12,0	*8.000/100*
	S1.5-P10	1,8	1,6	10,0	14,0	*8.000/100*
	S1.5-P12	1,8	1,6	12,0	16,2	*8.000/100*
1,5÷2,5 [16÷14]	**S2.5-P8**	2,4	1,6	8,0	12,0	*7.000/100*
	S2.5-P10	2,4	1,6	10,0	14,0	*7.000/100*
	S2.5-P12	2,4	1,6	12,0	16,0	*7.000/100*
4÷6 [12÷10]	**S6-P10**	3,6	2,2	10,0	16,8	*4.000/100*
	S6-P12	3,6	2,2	12,0	19,0	*4.000/100*
	S6-P14	3,6	2,2	14,0	21,0	*3.000/100*

blade terminals

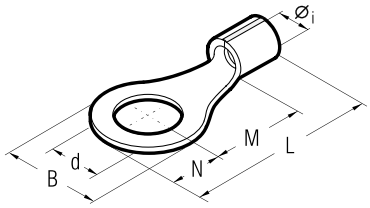


Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	**S1.5-PP12**	1,8	3,0	12,8	17,0	*8.000/100*
	S1.5-PP12/1*	1,8	3,0	11,3	15,5	*8.000/100*
	S1.5-PP12/19	1,8	1,9	13,2	17,4	*8.000/100*
	S1.5-PP14	1,8	3,0	14,8	19,0	*8.000/100*
1,5÷2,5 [16÷14]	**S2.5-PP12**	2,4	3,5	12,8	17,0	*7.000/100*
	S2.5-PP12/25	2,4	2,5	13,3	17,5	*7.000/100*
	S2.5-PP16/25	2,4	2,5	17,2	21,4	*7.000/100*
4÷6 [12÷10]	**S6-PP12**	3,6	4,0	13,3	19,7	*4.000/100*
	S6-PP17	3,6	2,9	19,1	25,5	*4.000/100*

*Made to order

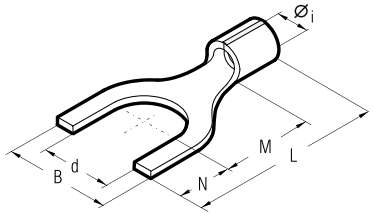
S range - brazed seam - for Copper conductors

ring terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 [22÷16]	2	S1.5-M2*	1,8	5,6	4,5	2,8	11,5	2,2	7.000/100
	3	S1.5-M3	1,8	5,6	4,5	2,8	11,5	3,2	7.000/100
	3,5	S1.5-M3.5	1,8	5,6	4,5	2,8	11,5	3,7	7.000/100
	3,5	S1.5-M3.5/1*	1,8	6,2	7,1	3,1	14,4	3,7	7.000/100
	4	S1.5-M4	1,8	7,0	6,5	3,5	14,2	4,3	7.000/100
	4	S1.5-M4/3*	1,8	7,8	7,1	3,9	15,2	4,3	7.000/100
	5	S1.5-M5	1,8	7,8	7,1	3,9	15,2	5,3	7.000/100
	6	S1.5-M6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	S1.5-M6/1	1,8	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	S1.5-M7	1,8	9,4	8,1	4,7	17,0	7,2	6.000/100
	8	S1.5-M8	1,8	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	S1.5-M10	1,8	15,5	13,0	7,7	25,0	10,5	3.000/100
	12	S1.5-M12	1,8	18,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 [16÷14]	3	S2.5-M3	2,4	5,6	5,0	2,8	12,0	3,2	6.000/100
	3,5	S2.5-M3.5	2,4	5,6	5,0	2,8	12,0	3,7	6.000/100
	3,5	S2.5-M3.5/1*	2,4	6,2	6,5	3,1	13,8	3,7	5.000/100
	4	S2.5-M4	2,4	8,0	6,5	4,0	14,7	4,3	5.000/100
	5	S2.5-M5	2,4	8,0	7,5	4,0	15,7	5,3	5.000/100
	6	S2.5-M6	2,4	9,4	8,6	4,7	17,5	6,4	5.000/100
	6	S2.5-M6/1	2,4	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	S2.5-M7	2,4	10,0	7,8	5,0	17,0	7,2	5.000/100
	8	S2.5-M8	2,4	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	S2.5-M10	2,4	15,5	13,0	7,7	25,0	10,5	2.500/100
	12	S2.5-M12	2,4	18,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 [12÷10]	3	S6-M3	3,6	8,0	8,1	4,0	18,5	3,2	3.000/100
	3,5	S6-M3.5	3,6	8,0	8,1	4,0	18,5	3,7	3.000/100
	4	S6-M4	3,6	9,0	8,1	4,5	19,0	4,3	3.000/100
	5	S6-M5	3,6	9,0	8,1	4,5	19,0	5,3	2.500/100
	6	S6-M6	3,6	11,0	11,1	5,5	23,0	6,4	2.500/100
	6	S6-M6/1*	3,6	11,0	8,1	5,5	20,0	6,4	2.500/100
	7	S6-M7	3,6	11,0	11,1	5,5	23,0	7,2	2.500/100
	8	S6-M8	3,6	13,6	12,1	6,8	25,3	8,4	2.000/100
	8	S6-M8/1*	3,6	11,0	8,1	5,5	20,0	8,4	2.500/100
	10	S6-M10	3,6	13,6	12,1	6,8	25,3	10,5	2.000/100
	10	S6-M10/1	3,6	15,5	13,8	7,7	28,0	10,5	2.000/100
	12	S6-M12	3,6	19,0	15,1	9,5	31,0	13,0	1.000/100
	14	S6-M14	3,6	21,0	16,1	10,5	33,0	15,0	1.000/100
	16	S6-M16	3,6	24,0	17,1	12,0	35,5	17,0	1.000/100
10 (8)	4	S10-M4	4,8	11,5	9,0	5,8	23,8	4,3	2.000/100
	5	S10-M5	4,8	11,5	9,0	5,8	23,8	5,3	2.000/100
	6	S10-M6	4,8	11,5	9,0	5,8	23,8	6,4	1.500/100
	7	S10-M7	4,8	11,5	9,0	5,8	23,8	7,2	1.500/100

fork/spade terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 [22÷16]	3	S1.5-U3	1,8	5,5	5,5	4,0	13,7	3,2	7.000/100
	3,5	S1.5-U3.5	1,8	6,0	6,5	3,8	14,5	3,7	7.000/100
	3,5	S1.5-U3.5/2*	1,8	6,4	6,5	3,8	14,5	3,7	7.000/100
	4	S1.5-U4	1,8	6,5	7,5	3,7	15,4	4,3	7.000/100
	4	S1.5-U4/1*	1,8	8,5	7,5	3,7	15,4	4,3	7.000/100
	4	S1.5-U4/2	1,8	7,5	7,5	3,7	15,4	4,3	7.000/100
	5	S1.5-U5	1,8	8,5	7,5	3,7	15,4	5,3	7.000/100
	5	S1.5-U5/1	1,8	9,4	7,5	3,7	15,4	5,3	7.000/100
	6	S1.5-U6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	S1.5-U6/1*	1,8	12,0	9,2	7,1	20,5	6,4	6.000/100
	8	S1.5-U8	1,8	14,0	10,0	6,3	20,5	8,4	3.000/100
	10	S1.5-U10	1,8	17,5	13,0	7,7	25,0	10,5	2.500/100
	12	S1.5-U12	1,8	20,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 [16÷14]	3	S2.5-U3	2,4	5,5	5,5	4,0	13,7	3,2	6.000/100
	3,5	S2.5-U3.5	2,4	6,4	6,5	3,8	14,5	3,7	6.000/100
	3,5	S2.5-U3.5/1*	2,4	7,2	6,5	3,8	14,5	3,7	6.000/100
	4	S2.5-U4	2,4	6,5	7,5	3,7	15,4	4,3	5.000/100
	4	S2.5-U4/1*	2,4	8,5	7,5	3,7	15,4	4,3	6.000/100
	4	S2.5-U4/2*	2,4	7,5	7,5	3,7	15,4	4,3	6.000/100
	5	S2.5-U5	2,4	8,5	7,5	3,7	15,4	5,3	6.000/100
	6	S2.5-U6	2,4	9,4	8,1	4,7	17,0	6,4	5.000/100
	6	S2.5-U6/1*	2,4	12,0	9,2	7,1	20,5	6,4	4.000/100
	8	S2.5-U8	2,4	14,0	10,0	6,3	20,5	8,4	2.500/100
	10	S2.5-U10	2,4	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	S2.5-U12	2,4	20,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 [12÷10]	3,5	S6-U3.5	3,6	7,5	8,5	3,9	18,8	3,7	3.000/100
	4	S6-U4	3,6	7,5	8,0	4,4	18,8	4,3	3.000/100
	5	S6-U5	3,6	9,5	8,0	4,4	18,8	5,3	2.500/100
	6	S6-U6	3,6	10,0	11,0	5,5	22,9	6,4	2.500/100
	8	S6-U8	3,6	13,5	12,0	8,0	26,4	8,4	2.000/100
	10	S6-U10	3,6	15,5	13,0	8,0	27,4	10,5	2.000/100
	10	S6-U10/1*	3,6	17,5	13,8	7,7	28,0	10,5	2.000/100
	12	S6-U12	3,6	21,0	15,1	9,5	31,0	13,0	1.000/100
	14	S6-U14	3,6	23,0	16,1	10,5	33,0	15,0	1.000/100
	16	S6-U16*	3,6	26,0	17,1	11,5	35,0	17,0	1.000/100

*Made to order

RN BN GN

UNINSULATED TERMINALS

RN, BN, GN range - unbrazed - for Copper conductors



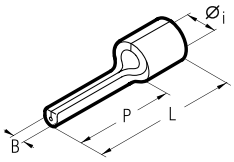
Cu-ETP | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT

RN, BN. GN range terminals are manufactured from electrolytic Copper strip with a purity greater than 99.9% and Tin plated.
The seam is unbrazed.

The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.

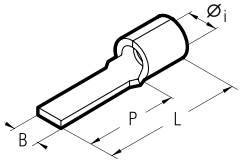
Recommended crimping tools are shown on pages 188 to 225, 312.

pin terminals



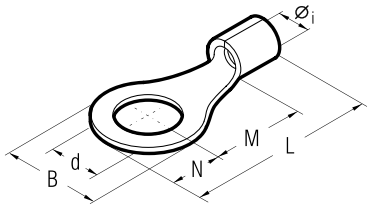
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	RN-P8	1,8	1,6	8,0	12,0	8.000/100
	RN-P10	1,8	1,6	10,0	14,0	8.000/100
	RN-P12	1,8	1,6	12,0	16,2	8.000/100
1,5÷2,5 [16÷14]	BN-P8	2,4	1,6	8,0	12,0	7.000/100
	BN-P10	2,4	1,6	10,0	14,0	7.000/100
	BN-P12	2,4	1,6	12,0	16,0	7.000/100
4÷6 [12÷10]	GN-P10	3,6	2,2	10,0	16,8	4.000/100
	GN-P12	3,6	2,2	12,0	19,0	4.000/100
	GN-P14	3,6	2,2	14,0	21,0	3.500/100

blade terminals



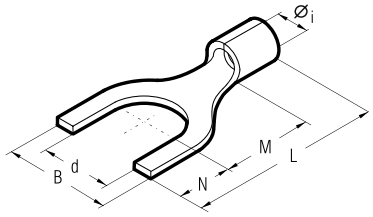
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	RN-PP12	1,8	3,0	12,8	17,0	8.000/100
	RN-PP12/1	1,8	3,0	11,3	15,5	8.000/100
	RN-PP12/19	1,8	1,9	13,2	17,4	8.000/100
	RN-PP14	1,8	3,0	14,8	19,0	8.000/100
	RN-PP16/23	1,8	2,3	17,2	21,4	8.000/100
1,5÷2,5 [16÷14]	BN-PP12	2,4	3,5	12,8	17,0	7.000/100
	BN-PP12/25	2,4	2,5	13,3	17,5	7.000/100
	BN-PP16/25	2,4	2,5	17,2	21,4	7.000/100
4÷6 [12÷10]	GN-PP12	3,6	4,0	13,3	19,7	4.000/100
	GN-PP17	3,6	2,9	19,1	25,5	3.000/100

ring terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 (22÷16)	2	RN-M2*	1,8	5,6	4,5	2,8	11,5	2,2	7.000/100
	3	RN-M3	1,8	5,6	4,5	2,8	11,5	3,2	7.000/100
	3,5	RN-M3.5	1,8	5,6	4,5	2,8	11,5	3,7	7.000/100
	3,5	RN-M3.5/1	1,8	6,2	7,1	3,1	14,4	3,7	7.000/100
	4	RN-M4	1,8	7,0	6,5	3,5	14,2	4,3	7.000/100
	4	RN-M4/3	1,8	7,8	7,1	3,9	15,2	4,3	7.000/100
	5	RN-M5	1,8	7,8	7,1	3,9	15,2	5,3	7.000/100
	6	RN-M6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	RN-M6/1	1,8	12,0	10,3	6,0	20,5	6,4	4.000/100
	7	RN-M7	1,8	9,4	8,1	4,7	17,0	7,2	6.000/100
	8	RN-M8	1,8	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	RN-M10	1,8	15,5	13,0	7,7	25,0	10,5	2.000/100
	12	RN-M12	1,8	18,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 (16÷14)	2	BN-M2*	2,4	5,6	5,0	2,8	12,0	2,2	6.000/100
	3	BN-M3	2,4	5,6	5,0	2,8	12,0	3,2	6.000/100
	3,5	BN-M3.5	2,4	5,6	5,0	2,8	12,0	3,7	6.000/100
	3,5	BN-M3.5/1	2,4	6,2	6,5	3,1	13,8	3,7	6.000/100
	4	BN-M4	2,4	8,0	6,5	4,0	14,7	4,3	5.000/100
	5	BN-M5	2,4	8,0	7,5	4,0	15,7	5,3	5.000/100
	6	BN-M6	2,4	9,4	8,6	4,7	17,5	6,4	5.000/100
	6	BN-M6/1	2,4	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	BN-M7	2,4	10,0	7,8	5,0	17,0	7,2	5.000/100
	8	BN-M8	2,4	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	BN-M10	2,4	15,5	13,0	7,7	25,0	10,5	2.500/100
	12	BN-M12	2,4	18,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 (12÷10)	3	GN-M3	3,6	8,0	8,1	4,0	18,5	3,2	3.000/100
	3,5	GN-M3.5	3,6	8,0	8,1	4,0	18,5	3,7	3.000/100
	4	GN-M4	3,6	9,0	8,1	4,5	19,0	4,3	3.000/100
	5	GN-M5	3,6	9,0	8,1	4,5	19,0	5,3	2.500/100
	6	GN-M6	3,6	11,0	11,1	5,5	23,0	6,4	2.500/100
	6	GN-M6/1	3,6	11,0	8,1	5,5	20,0	6,4	2.500/100
	7	GN-M7	3,6	11,0	11,1	5,5	23,0	7,2	2.500/100
	8	GN-M8	3,6	13,6	12,1	6,8	25,3	8,4	2.000/100
	8	GN-M8/1*	3,6	11,0	8,1	5,5	20,0	8,4	2.500/100
	10	GN-M10	3,6	13,6	12,1	6,8	25,3	10,5	2.000/100
	10	GN-M10/1	3,6	15,5	13,8	7,7	28,0	10,5	2.000/100
	12	GN-M12	3,6	19,0	15,1	9,5	31,0	13,0	1.000/100
	14	GN-M14	3,6	21,0	16,1	10,5	33,0	15,0	1.000/100
	16	GN-M16	3,6	24,0	17,1	12,0	35,5	17,0	1.000/100

fork/spade terminals



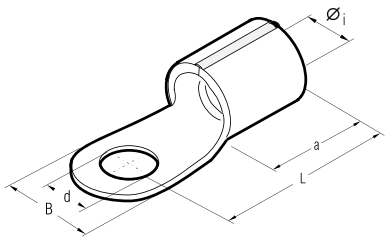
Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	RN-U3	1,8	5,5	5,5	4,0	13,7	3,2	7.000/100
	3,5	RN-U3.5	1,8	6,0	6,5	3,8	14,5	3,7	7.000/100
	3,5	RN-U3.5/2	1,8	6,4	6,5	3,8	14,5	3,7	7.000/100
	4	RN-U4	1,8	6,5	7,5	3,7	15,4	4,3	7.000/100
	4	RN-U4/1	1,8	8,5	7,5	3,7	15,4	4,3	7.000/100
	4	RN-U4/2	1,8	7,5	7,5	3,7	15,4	4,3	7.000/100
	5	RN-U5	1,8	8,5	7,5	3,7	15,4	5,3	5.000/100
	5	RN-U5/1*	1,8	9,4	7,5	3,7	15,4	5,3	5.000/100
	6	RN-U6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	RN-U6/1	1,8	12,0	9,2	7,1	20,5	6,4	3.000/100
	8	RN-U8	1,8	14,0	10,0	6,3	20,5	8,4	2.500/100
	10	RN-U10	1,8	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	RN-U12	1,8	20,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 (16÷14)	3	BN-U3	2,4	5,5	5,5	4,0	13,7	3,2	6.000/100
	3,5	BN-U3.5	2,4	6,4	6,5	3,8	14,5	3,7	6.000/100
	3,5	BN-U3.5/1*	2,4	7,2	6,5	3,8	14,5	3,7	6.000/100
	4	BN-U4	2,4	6,5	7,5	3,7	15,4	4,3	6.000/100
	4	BN-U4/1	2,4	8,5	7,5	3,7	15,4	4,3	6.000/100
	4	BN-U4/2	2,4	7,5	7,5	3,7	15,4	4,3	6.000/100
	5	BN-U5	2,4	8,5	7,5	3,7	15,4	5,3	5.000/100
	6	BN-U6	2,4	9,4	8,1	4,7	17,0	6,4	5.000/100
	6	BN-U6/1	2,4	12,0	9,2	7,1	20,5	6,4	4.000/100
	8	BN-U8	2,4	14,0	10,0	6,3	20,5	8,4	4.000/100
	10	BN-U10	2,4	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	BN-U12	2,4	20,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 (12÷10)	3,5	GN-U3.5	3,6	7,5	8,5	3,9	18,8	3,7	3.000/100
	4	GN-U4	3,6	7,5	8,0	4,4	18,8	4,3	3.000/100
	5	GN-U5	3,6	9,5	8,0	4,4	18,8	5,3	2.500/100
	6	GN-U6	3,6	10,0	11,0	5,5	22,9	6,4	2.500/100
	8	GN-U8	3,6	13,5	12,0	8,0	26,4	8,4	2.000/100
	10	GN-U10	3,6	15,5	13,0	8,0	27,4	10,5	2.000/100
	10	GN-U10/1	3,6	17,5	13,8	7,7	28,0	10,5	2.000/100
	12	GN-U12	3,6	21,0	15,1	9,5	31,0	13,0	1.000/100
	14	GN-U14	3,6	23,0	16,1	10,5	33,0	15,0	1.000/100
	16	GN-U16	3,6	26,0	17,1	11,5	35,0	17,0	1.000/100

*Made to order

CRIMPING CONNECTORS ACCORDING TO DIN 46234

for Copper conductors





Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT

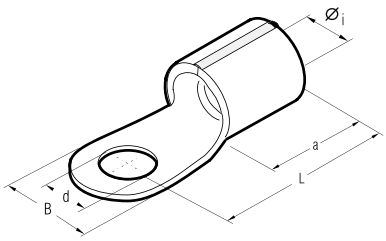
Q type connectors are manufactured from electrolytic Copper strip with a purity greater than 99.9%, annealed and surface protected by tin plating; dimensions are compliant with DIN 46234; the sleeve is brazed with a silver-Copper alloy.
Details of the conductor csa and stud diameter are engraved on the palm.
Details of the appropriate crimping tools and dies are shown on page 378.

Consult us for special requirements.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
			Øi	d	L	B	a			
6÷10	4	Q10-4	4,5	4,3	16,0	10,0	8,0	1.500/100	HNS*	HT51D RH50 RHM50 B500 B500ND HT81-UD RHU81D / RH60C HT60C B600C B600CND / HT120 and tools and heads with 130 kN crimping force / ECW-H3D
	5	Q10-5	4,5	5,3	16,0	10,0	8,0	1.500/100		
	6	Q10-6	4,5	6,5	17,0	11,0	8,0	1.000/100		
	8	Q10-8	4,5	8,4	20,0	14,0	8,0	1.000/100		
	10	Q10-10	4,5	10,5	21,0	18,0	8,0	1.000/100		
	12	Q10-12	4,5	13,0	22,0	22,0	8,0	500/100		
10÷16	5	Q16-5	5,8	5,3	20,0	11,0	10,0	1.000/100		
	6	Q16-6	5,8	6,5	20,0	11,0	10,0	1.000/100		
	8	Q16-8	5,8	8,4	22,0	14,0	10,0	500/100		
	10	Q16-10	5,8	10,5	24,0	18,0	10,0	500/100		
	12	Q16-12	5,8	13,0	26,0	22,0	10,0	500/100		
16÷25	5	Q25-5	7,5	5,3	25,0	12,0	11,0	500/100		
	6	Q25-6	7,5	6,5	25,0	12,0	11,0	500/100		
	8	Q25-8	7,5	8,4	25,0	16,0	11,0	500/100		
	10	Q25-10	7,5	10,5	26,0	18,0	11,0	500/100		
	12	Q25-12	7,5	13,0	31,0	22,0	11,0	500/100		
	16	Q25-16	7,5	17,0	35,0	28,0	11,0	200/100		
25÷35	6	Q35-6	9,0	6,5	26,0	15,0	12,0	400/100		
	8	Q35-8	9,0	8,4	26,0	16,0	12,0	400/100		
	10	Q35-10	9,0	10,5	27,0	18,0	12,0	300/100		
	12	Q35-12	9,0	13,0	31,0	22,0	12,0	250/50		
	16	Q35-16	9,0	17,0	36,0	28,0	12,0	200/50		
35÷50	6	Q50-6	11,0	6,5	34,0	18,0	16,0	200/50		
	8	Q50-8	11,0	8,4	34,0	18,0	16,0	200/50		
	10	Q50-10	11,0	10,5	34,0	18,0	16,0	200/50		
	12	Q50-12	11,0	13,0	36,0	22,0	16,0	200/50		
	16	Q50-16	11,0	17,0	40,0	28,0	16,0	200/50		
50÷70	6	Q70-6	13,0	6,5	38,0	22,0	18,0	100/50		
	8	Q70-8	13,0	8,4	38,0	22,0	18,0	100/50		
	10	Q70-10	13,0	10,5	38,0	22,0	18,0	100/50		
	12	Q70-12	13,0	13,0	38,0	22,0	18,0	100/50		
	16	Q70-16	13,0	17,0	42,0	28,0	18,0	100/50		
70÷95	8	Q95-8	15,0	8,4	42,0	24,0	20,0	100/25		
	10	Q95-10	15,0	10,5	42,0	24,0	20,0	100/25		
	12	Q95-12	15,0	13,0	44,0	24,0	20,0	100/25		
	16	Q95-16	15,0	17,0	70,0	28,0	20,0	100/25		

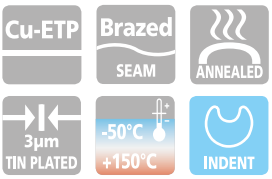
CRIMPING CONNECTORS ACCORDING TO DIN 46234

for Copper conductors



Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	Hydraulic Tools		
			Øi	d	L	B	a				
95÷120	8	Q120-8	16,5	8,4	44,0	24,0	22,0	100/25	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
	10	Q120-10	16,5	10,5	44,0	24,0	22,0	100/25			
	12	Q120-12	16,5	13,0	44,0	24,0	22,0	100/25			
	16	Q120-16	16,5	17,0	48,0	28,0	22,0	50/25			
120:150	10	Q150-10	19,0	10,5	50,0	30,0	24,0	50/25			
	12	Q150-12	19,0	13,0	50,0	30,0	24,0	50/25			
	16	Q150-16	19,0	17,0	50,0	30,0	24,0	50/25			
150÷185	10	Q185-10	21,0	10,5	50,0	36,0	28,0	40/20			
	12	Q185-12	21,0	13,0	50,0	36,0	28,0	40/20			
	16	Q185-16	21,0	17,0	50,0	36,0	28,0	30/15			
185÷240	10	Q240-10	23,5	10,5	56,0	38,0	32,0	10/10			
	12	Q240-12	23,5	13,0	56,0	38,0	32,0	10/10			
	16	Q240-16	23,5	17,0	56,0	38,0	32,0	10/10			

Consult us for further information.



Consult us for special requirements.

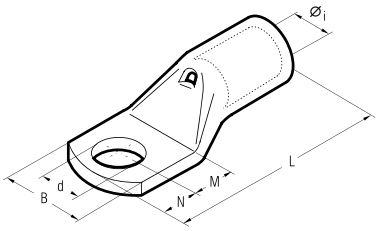
CEMBRE

A-M

COPPER TUBE CRIMPING LUGS

for Copper conductors







A-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation. A-M series lugs form an important part of CEMBRE crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on pages 368 to 369.
Our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

| Conductor Size sqmm | | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | Mechanical Tools | | | Hydraulic Tools | | | | | |

COPPER TUBE CRIMPING LUGS

for Copper conductors

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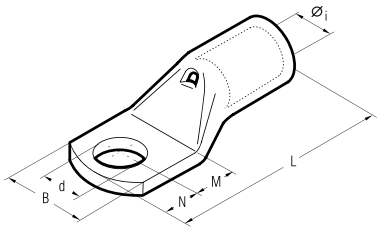
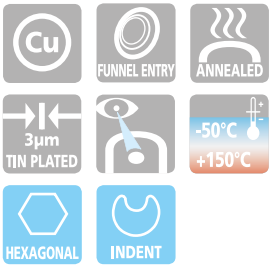


Conductor Size sqmm		Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools										
Low Str.	Flex*			Øi	B	M	N	L	d		TN1205E**	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
95	70	6	A19-M6	13,5	25,0	8,0	7,0	50,5	6,4	100/25																
		8	A19-M8	13,5	25,0	9,0	8,0	52,5	8,4	100/25																
		10	A19-M10	13,5	25,0	11,0	10,0	56,5	10,5	100/25																
	95	12	A19-M12	13,5	25,0	14,0	12,0	61,5	13,2	100/25																
		14	A19-M14	13,5	25,0	16,0	14,0	65,5	15,0	100/25																
		16	A19-M16	13,5	27,0	18,0	16,0	69,5	17,0	50/25																
		20	A19-M20	13,5	29,5	22,0	20,0	77,5	21,0	50/25																
120	95	8	A24-M8	15,2	28,5	9,0	8,0	54,0	8,4	75/25																
		10	A24-M10	15,2	28,5	11,0	10,0	58,0	10,5	75/25																
		12	A24-M12	15,2	28,5	14,0	12,0	63,0	13,2	75/25																
	120	14	A24-M14	15,2	28,5	16,0	14,0	67,0	15,0	50/25																
		16	A24-M16	15,2	28,5	18,0	16,0	71,0	17,0	50/25																
		20	A24-M20	15,2	30,0	22,0	20,0	79,0	21,0	50/25																
150	120	8	A30-M8	16,7	31,5	13,0	11,0	69,0	8,4	50/25																
		10	A30-M10	16,7	31,5	13,0	11,0	69,0	10,5	50/25																
		12	A30-M12	16,7	31,5	16,0	14,0	75,0	13,2	50/25																
	150	14	A30-M14	16,7	31,5	18,0	16,0	79,0	15,0	50/25																
		16	A30-M16	16,7	31,5	19,0	17,0	81,0	17,0	50/25																
		20	A30-M20	16,7	31,5	22,0	20,0	87,0	21,0	50/25																
185	150	8	A37-M8	19,2	35,5	13,0	11,0	76,0	8,4	30/15																
		10	A37-M10	19,2	35,5	13,0	11,0	76,0	10,5	30/15																
		12	A37-M12	19,2	35,5	16,0	14,0	82,0	13,2	30/15																
	185	14	A37-M14	19,2	35,5	18,0	16,0	86,0	15,0	30/15																
		16	A37-M16	19,2	35,5	19,0	17,0	88,0	17,0	30/15																
		20	A37-M20	19,2	35,5	22,0	20,0	94,0	21,0	30/15																
240	185	8	A48-M8	21,1	39,0	13,0	11,0	77,5	8,4	20/10																
		10	A48-M10	21,1	39,0	13,0	11,0	77,5	10,5	20/10																
		12	A48-M12	21,1	39,0	14,0	12,0	79,5	13,2	20/10																
	240	14	A48-M14	21,1	39,0	18,0	16,0	92,0	15,0	20/10																
		16	A48-M16	21,1	39,0	19,0	17,0	94,0	17,0	20/10																
		20	A48-M20	21,1	39,0	22,0	20,0	100,0	21,0	20/10																
300	240	10	A60-M10	23,7	44,0	20,0	11,0	96,0	10,5	20/10																
		12	A60-M12	23,7	44,0	20,0	14,0	99,0	13,2	20/10																
		14	A60-M14	23,7	44,0	22,0	16,0	103,0	15,0	20/10																
	300	16	A60-M16	23,7	44,0	22,0	19,0	106,0	17,0	20/10																
		20	A60-M20	23,7	44,0	24,0	23,0	112,0	21,0	20/10																
400	300	12	A80-M12	27,0	51,0	22,0	19,0	113,0	13,2	15/5																
		14	A80-M14	27,0	51,0	22,0	19,0	113,0	15,0	15/5																
	400	16	A80-M16	27,0	51,0	22,0	19,0	113,0	17,0	15/5																
		20	A80-M20	27,0	51,0	24,0	23,0	119,0	21,0	15/5																
500	400	16	A100-M16	30,3	56,5	22,0	19,0	117,0	17,0	10/1																
	500	20	A100-M20	30,3	56,5	24,0	23,0	123,0	21,0	10/1																
630	500	16	A120-M16♦	33,4	61,6	22,0	19,0	128,0	17,0	9/1																
	630	20	A120-M20♦	33,4	61,6	24,0	23,0	134,0	21,0	9/1																
800	630	16	A160-M16♦	38,0	72,0	24,0	19,0	141,0	17,0	5/1																
		20	A160-M20♦	38,0	72,0	24,0	23,0	145,0	21,0	6/1																
1000	800	16	A200-M16♦	44,0	80,0	24,0	19,0	158,0	17,0	5/1																
		20	A200-M20♦	44,0	80,0	24,0	23,0	162,0	21,0	5/1																

*Actual conductor section may require a larger lug eg for 120mm² size use A30-... lug.

**See page 203



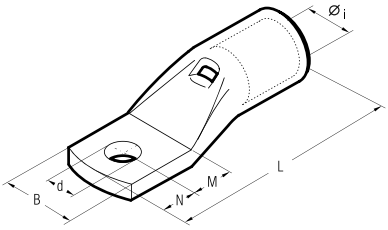
♦Not UL approved

CEMBRE

RING TONGUE TERMINALS WITH CONTAINED PALM

for L.V. circuit breakers - for Copper conductors





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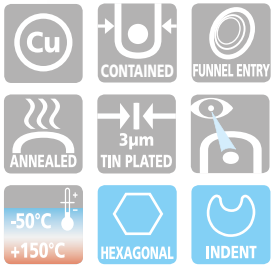


Cond. Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools														
			Øi	B	M	N	L	d		HN5	HN-A25	TN70SE	TN120SE	B15MD	B450ND-BV	HT45-E	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
10	5	**A2-M5/9**	4,6	9,0	6,5	6,0	26,0	5,3	*1.000/100*																			
16	5	**A3-M5/9**	5,8	9,0	6,5	6,0	30,5	5,3	*1.000/100*																			
25	5	**A5-M5/9**	7,0	9,0	6,5	6,0	31,5	5,3	*500/100*																			
	6	**A5-M6/11**	7,0	11,0	7,0	6,0	32,0	6,4	*500/100*																			
	8	**A5-M8/13.5**	7,0	13,5	9,0	8,0	36,0	8,4	*500/100*																			
	10	**A5-M10/14**	7,0	14,0	11,0	10,0	40,0	10,5	*500/100*																			
35	6	**A7B-M6/11.5***	8,9	11,5	8,0	7,0	36,5	6,4	*400/100*																			
	8	**A7B-M8/14***	8,9	14,0	9,0	8,0	38,5	8,4	*400/100*																			
50	6	**A10B-M6/11.5***	10,0	11,5	8,0	7,0	40,5	6,4	*200/50*																			
	8	**A10B-M8/14***	10,0	14,0	9,0	8,0	42,5	8,4	*200/50*																			
70	6	**A14B-M6/11.5***	11,3	11,5	8,0	7,0	44,5	6,4	*200/50*																			
	8	**A14B-M8/15.5***	11,3	15,5	9,0	8,0	46,0	8,4	*200/50*																			
95	8	**A19B-M8/15.5***	13,5	15,5	9,0	8,0	52,5	8,4	*100/25*																			
	8	**A19-M8/19**	13,5	19,0	9,0	8,0	52,5	8,4	*100/25*																			
	10	**A19-M10/19**	13,5	19,0	9,0	8,0	52,5	10,5	*100/25*																			
120	8	**A24B-M8/19***	15,2	19,0	14,0	9,0	60,0	8,4	*75/25*																			
	10	**A24B-M10/19***	15,2	19,0	14,0	9,0	60,0	10,5	*75/25*																			
150	8	**A30B-M8/19***	16,7	19,0	18,0	9,0	70,0	8,4	*50/25*																			
	10	**A30B-M10/19***	16,7	19,0	18,0	9,0	70,0	10,5	*50/25*																			
185	10	**A37B-M10/24.5***	19,2	24,5	18,0	9,0	77,0	10,5	*30/15*																			
	12	**A37-M12/31**	19,2	31,0	16,0	12,0	80,0	13,2	*30/15*																			
240	10	**A48-M10/31**	21,1	31,0	13,0	9,0	80,0	10,5	*20/10*																			
	12	**A48B-M12/31***	21,1	31,0	14,0	12,0	79,5	13,2	*20/10*																			
	12	**A48-M12/31**	21,1	31,0	16,0	12,0	86,0	13,2	*20/10*																			
	16	**A48-M16/31**	21,1	31,0	19,0	17,0	94,0	17,0	*20/10*																			
300	10	**A60B-M10/31***	23,7	31,0	16,0	12,0	95,0	10,5	*20/10*																			
	12	**A60B-M12/31***	23,7	31,0	16,0	12,0	95,0	13,2	*20/10*																			
400	12	**A80-M12/41**	27,0	41,0	22,0	19,0	113,0	13,2	*15/5*																			
800	20	**A160B-M20S/61***	38,0	61,0	31,5	34,0	163,5	21,0	*6/2*																			

*Without inspection hole

This range of terminals features contained palm width and has been specifically developed for application on L.V. circuit breakers with reduced space terminal blocks.
The contained palm width allows an immediate and easier installation.
CEMBRE terminals are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The specifically designed section of the barrel and the choice of principal dimensions are optimising the best combination of mechanical strength and electrical conductivity.
These terminals are annealed to guarantee optimum ductility and are electrolytically Tin plated to avoid oxidation.
The barrel is provided with an internal taper to ease the introduction of the conductor; furthermore, its length grants a comfortable and correct positioning between dies, during crimping operations.
Each palm is marked with the CEMBRE logo and part number.

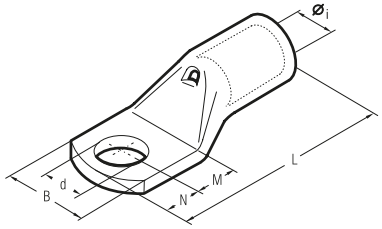
Easy to install via cable gland, allows for pre-installation.

Details of the appropriate crimping tools and dies are shown on pages 368 to 369.



COPPER TUBE CRIMPING LUGS

for extra flexible Copper conductors







Conductor Size Extra Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools								
			Øi	B	M	N	L	d		TN70SE	TN120SE	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHUS20		
35	6	A9-M6/15	9,3	15,0	8,0	7,0	38,5	6,4	400/100											
	8	A9-M8	9,3	17,0	9,0	8,0	40,5	8,4	400/100											
	10	A9-M10	9,3	18,5	11,0	10,0	44,5	10,5	300/100											
	12	A9-M12	9,3	21,0	14,0	12,0	49,5	13,2	200/50											
50	6	A12-M6/15	11,0	15,0	8,0	7,0	40,5	6,4	200/50											
	8	A12-M8	11,0	19,3	9,0	8,0	42,5	8,4	200/50											
	10	A12-M10	11,0	19,3	11,0	10,0	46,5	10,5	200/50											
	10	A12-M10/19	11,0	19,0	11,0	10,0	46,5	10,5	200/50											
	12	A12-M12	11,0	22,0	14,0	12,0	51,5	13,2	200/50											
70	6	A17-M6	13,0	23,0	8,0	7,0	45,0	6,4	200/50											
	8	A17-M8	13,0	23,0	9,0	8,0	47,0	8,4	150/50											
	10	A17-M10	13,0	23,0	11,0	10,0	51,0	10,5	150/50											
	10	A17-M10/19	13,0	19,0	11,0	10,0	51,0	10,5	200/50											
	12	A17-M12	13,0	23,0	14,0	12,0	56,0	13,2	150/50											
	14	A17-M14	13,0	25,0	15,5	12,0	57,5	15,0	150/25											
	16	A17-M16	13,0	27,0	16,5	13,5	60,0	17,0	100/25											
95	8	A20-M8	15,0	27,0	9,0	8,0	50,0	8,4	100/25											
	10	A20-M10	15,0	27,0	11,0	10,0	54,0	10,5	100/25											
	12	A20-M12	15,0	27,0	14,0	12,0	59,0	13,2	100/25											
	14	A20-M14	15,0	27,0	15,5	12,0	60,5	15,0	100/25											
	16	A20-M16	15,0	27,0	16,5	13,5	63,0	17,0	100/25											
120	8	A29-M8	16,5	30,0	9,0	8,0	53,5	8,4	50/25											
	10	A29-M10	16,5	30,0	11,0	10,0	57,5	10,5	50/25											
	12	A29-M12	16,5	30,0	14,0	12,0	62,5	13,2	50/25											
	14	A29-M14	16,5	30,0	15,5	12,0	64,0	15,0	100/25											
	16	A29-M16	16,5	30,0	16,5	13,5	66,5	17,0	50/25											
	20	A29-M20	16,5	30,0	22,0	20,0	78,5	21,0	75/25											
150	10	A35-M10	19,2	34,2	13,0	11,0	65,5	10,5	50/25											
	12	A35-M12	19,2	34,2	16,0	14,0	71,5	13,2	50/25											
	14	A35-M14	19,2	34,2	18,0	16,0	75,5	15,0	50/25											
	16	A35-M16	19,2	34,2	19,0	17,0	77,5	17,0	30/15											
	20	A35-M20	19,2	34,2	22,0	20,0	83,5	21,0	30/15											
185	10	A40-M10	21,0	37,5	13,0	11,0	73,0	10,5	30/15											
	12	A40-M12	21,0	37,5	16,0	14,0	79,0	13,2	30/15											
	14	A40-M14	21,0	37,5	18,0	16,0	83,0	15,0	30/15											
	16	A40-M16	21,0	37,5	19,0	17,0	85,0	17,0	30/15											
	20	A40-M20	21,0	37,5	22,0	20,0	91,0	21,0	30/15											



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.
A-M series lugs are designed to suit panel applications.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility and electrolytically Tin plated to avoid oxidation.
The presence of an inspection hole facilitates full insertion of the conductor.

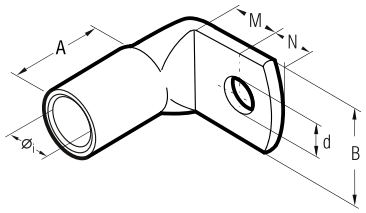
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

A-L

COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors





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A-L series lugs angled 90° are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.

Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

Conductor Size sqmm		Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools																			
Low Str.	Flex*			Øi	B	M	N	A	d		HN1	HN5	HN-A25	TN70SE	TN120SE**	B15MD	B450ND-BV	HT45-E	HT51	B500ND	RH50	HT60C	B600C	RH60C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
6		6	A1-L6♦	3,6	11,0	7,0	6,0	8,0	6,4	2.000/100																						
10		4	A2-L4	4,6	10,0	5,0	4,0	8,0	4,3	1.500/100																						
		5	A2-L5	4,6	10,0	6,5	6,0	8,0	5,3	1.000/100																						
		6	A2-L6	4,6	11,0	7,0	6,0	8,0	6,4	1.000/100																						
		8	A2-L8	4,6	15,0	9,0	8,0	8,0	8,4	500/100																						
16		5	A3-L5	5,8	11,5	6,5	6,0	11,5	5,3	1.000/100																						
		6	A3-L6	5,8	11,5	7,0	6,0	11,5	6,4	1.000/100																						
		8	A3-L8	5,8	15,0	9,0	8,0	11,5	8,4	500/100																						
		10	A3-L10	5,8	18,0	11,0	10,0	11,5	10,5	500/100																						
25		5	A5-L5	7,0	14,0	6,5	6,0	10,5	5,3	500/100																						
		6	A5-L6	7,0	14,0	7,0	6,0	10,5	6,4	500/100																						
		8	A5-L8	7,0	15,0	9,0	8,0	10,5	8,4	500/100																						
		10	A5-L10	7,0	18,0	11,0	10,0	10,5	10,5	500/100																						
35		6	A7-L6	8,9	17,0	7.0	6,0	13,2	6,4	300/100																						
	25	8	A7-L8	8,9	17,0	9,0	8,0	13,2	8,4	300/100																						
	35	10	A7-L10	8,9	19,0	11,0	10,0	13,2	10,5	300/100																						
		12	A7-L12	8,9	21,0	14,0	12,0	13,2	13,2	300/100																						
50		6	A10-L6	10,0	19,0	8,0	7,0	16,5	6,4	300/100																						
	35	8	A10-L8	10,0	19,0	9,0	8,0	16,5	8,4	200/100																						
	50	10	A10-L10	10,0	20,0	11,5	9,5	16,5	10,5	200/50																						
		12	A10-L12	10,0	21,0	12,0	12,0	16,5	13,2	200/50																						
70		8	A14-L8	11,3	21,0	9,0	8,0	18,0	8,4	200/50																						
	50	10	A14-L10	11,3	21,0	11,0	10,0	18,0	10,5	100/50																						
	70	12	A14-L12	11,3	22,0	14,0	12,0	18,0	13,2	100/50																						
		16	A14-L16	11,3	26,0	18,0	16,0	18,0	17,0	150/50																						
95		8	A19-L8	13,5	25,0	9,0	8,0	22,5	8,4	100/25																						
	70	10	A19-L10	13,5	25,0	11,0	10,0	22,5	10,5	100/25																						
	95	12	A19-L12	13,5	25,0	14,0	12,0	22,5	13,2	100/25																						
120	95	10	A24-L10	15,2	28,5	11,0	10,0	24,0	10,5	50/25																						
	120	12	A24-L12	15,2	28,5	14,0	12,0	24,0	13,2	50/25																						
150	120	10	A30-L10	16,7	31,5	13,0	11,0	26,5	10,5	50/25																						
	150	12	A30-L12	16,7	31,5	16,0	14,0	26,5	13,2	50/25																						
185	150	10	A37-L10	19,2	35,5	13,0	11,0	29,0	10,5	30/15																						
	185	12	A37-L12	19,2	35,5	16,0	14,0	29,0	13,2	30/25																						
240	185	10	A48-L10	21,1	39,0	13,0	11,0	33,0	10,5	30/15																						
	240	12	A48-L12	21,1	39,0	16,0	14,0	33,0	13,2	20/10																						
300	240 300	12	A60-L12	23,7	44,0	20,0	14,0	40,0	13,2	20/10																						

*Actual conductor section may require a larger lug eg for 120mm² size use A30-... lug.

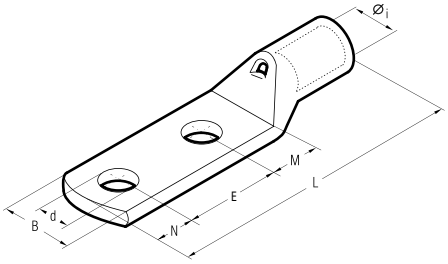
**See page 203

♦Not UL approved

COPPER TUBE CRIMPING LUGS

A-2M

double hole fixing - for Copper conductors





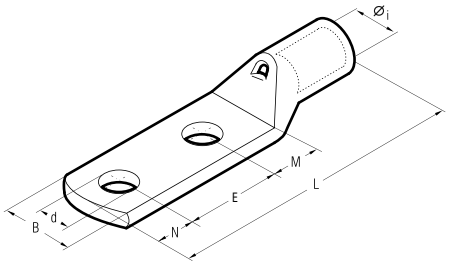
| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | Hydraulic Tools | | | | | | |

A-2M

COPPER TUBE CRIMPING LUGS

double hole fixing - for Copper conductors





c UL us File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
			Øi	B	M	N	E	L	d			
150	8	A30-2M8-20	16,7	31,5	13,0	11,0	20,0	89,0	8,4	50/25	TN120SE*	HT51 · RH50 · B500 · B500ND · RH60C · HT60C · B600C · B600CND · HT81-UD · RHU81-D · HT120 and tools and heads with 130 kN crimping force · ECW-H3D · RHU520
	10	A30-2M10	16,7	31,5	13,0	11,0	44,5	113,5	10,5	50/25		
	10	A30-2M10-24-28	16,7	31,5	28,0	11,0	24,0	108,0	10,5	50/25		
	12	A30-2M12	16,7	31,5	16,0	14,0	44,5	119,5	13,2	50/25		
	12	A30-2M12-30	16,7	31,5	16,0	14,0	30,0	105,0	13,2	50/25		
	12	A30-2M12-30-29	16,7	31,5	29,0	14,0	30,0	118,0	13,2	30/15		
	12	A30-2M12-40	16,7	31,5	16,0	14,0	40,0	115,0	13,2	30/15		
	14	A30-2M14	16,7	31,5	18,0	16,0	44,5	123,5	15,0	50/25		
	14	A30-2M14-33.5	16,7	31,5	18,0	16,0	33,5	112,5	15,0	50/25		
185	10	A37-2M10	19,2	35,5	13,0	11,0	44,5	120,5	10,5	30/15		
	10	A37-2M10-25	19,2	35,5	13,0	11,0	25,0	101,0	10,5	30/15		
	12	A37-2M12	19,2	35,5	16,0	14,0	44,5	126,5	13,2	30/15		
	12	A37-2M12-32	19,2	35,5	16,0	14,0	32,0	114,0	13,2	30/15		
	12	A37-2M12-30-31	19,2	35,5	31,0	14,0	30,0	127,0	13,2	30/15		
	14	A37-2M14	19,2	35,5	18,0	16,0	44,5	130,5	15,0	30/15		
	14	A37-2M14-35	19,2	35,5	18,0	16,0	35,0	121,0	15,0	30/15		
	16	A37-2M16	19,2	35,5	19,0	17,0	44,5	132,5	17,0	30/15		
	16	A37-2M16-40	19,2	35,5	19,0	17,0	40,0	128,0	17,0	30/15		
240	10	A48-2M10	21,1	39,0	13,0	11,0	44,5	126,5	10,5	30/15		
	10	A48-2M10-20	21,1	39,0	13,0	11,0	20,0	102,0	10,5	30/15		
	10	A48-2M10-35	21,1	39,0	13,0	11,0	35,0	117,0	10,5	30/15		
	12	A48-2M12	21,1	39,0	16,0	14,0	44,5	132,5	13,2	30/15		
	12	A48-2M12-35	21,1	39,0	16,0	14,0	35,0	123,0	13,2	30/15		
	12	A48-2M12-40	21,1	39,0	16,0	14,0	40,0	128,0	13,2	30/15		
	12	A48-2M12-30-31	21,1	39,0	31,0	14,0	30,0	133,0	13,2	20/10		
	14	A48-2M14	21,1	39,0	18,0	16,0	44,5	136,5	15,0	30/15		
	14	A48-2M14-40	21,1	39,0	18,0	16,0	40,0	132,0	15,0	30/15		
	16	A48-2M16	21,1	39,0	19,0	17,0	44,5	138,5	17,0	30/15		
300	10	A60-2M10	23,7	44,0	13,0	11,0	44,5	133,5	10,5	20/5		
	12	A60-2M12	23,7	44,0	20,0	14,0	44,5	143,5	13,2	20/5		
	12	A60-2M12-40	23,7	44,0	20,0	14,0	40,0	139,0	13,2	20/5		
	12	A60-2M12-30-38	23,7	44,0	38,0	14,0	30,0	147,0	13,2	20/5		
	14	A60-2M14	23,7	44,0	22,0	16,0	44,5	147,5	15,0	20/5		
	16	A60-2M16-40	23,7	44,0	22,0	17,0	40,0	144,0	17,0	20/5		
	16	A60-2M16	23,7	44,0	22,0	17,0	44,5	148,5	17,0	20/5		
	16	A60-2M16-35	23,7	44,0	22,0	17,0	35,0	139,0	17,0	20/5		
	16	A60-2M16/36	23,7	36,0	22,0	17,0	44,5	148,5	17,0	20/5		
400	12	A80-2M12	27,0	51,0	22,0	14,0	44,5	152,5	13,2	15/5		
	14	A80-2M14	27,0	51,0	22,0	16,0	44,5	154,5	15,0	15/5		
	14	A80-2M14-40	27,0	51,0	22,0	16,0	40,0	150,0	15,0	15/5		
	16	A80-2M16	27,0	51,0	22,0	19,0	44,5	157,5	17,0	15/5		
	16	A80-2M16-40	27,0	51,0	22,0	19,0	40,0	153,0	17,0	15/5		
	16	A80-2M16/41	27,0	41,0	22,0	19,0	44,5	157,5	17,0	15/5		
	16	A80-2M16-50	27,0	51,0	22,0	19,0	50,0	163,0	17,0	5		
500	12	A100-2M12	30,3	56,5	20,0	14,0	44,5	152,0	13,2	10/1		
	14	A100-2M14-40	30,3	56,5	17,0	16,0	40,0	149,0	15,0	1		
	14	A100-2M14	30,3	56,5	17,0	16,0	44,5	153,5	15,0	10/1		
	16	A100-2M16	30,3	56,5	19,0	19,0	44,5	158,5	17,0	10/5		
630	12	A120-2M12♦	33,4	61,6	22,0	14,0	44,5	167,5	13,2	20/5		
	16	A120-2M16♦	33,4	61,6	22,0	19,0	44,5	172,5	17,0	8/1		
800	12	A160-2M12♦	38,0	72,0	20,0	14,0	44,5	176,5	13,2	9/3		
	16	A160-2M16♦	38,0	72,0	22,0	19,0	44,5	183,5	17,0	9/3		

*See page 203

♦Not UL approved

COPPER TUBE CRIMPING LUGS ANGLED 315° and 345°

double hole fixing - for Copper conductors

File no. E125401

Fig. 1

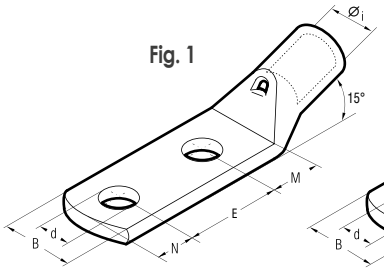
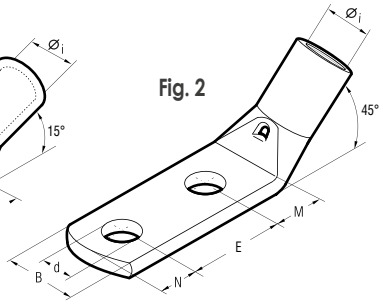


Fig. 2





Conductor Size sqmm	Ø Stud mm	Type	Fig. N.	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools															
				Øi	B	M	N	E	d		HN-A25	TN70SE	TN120SE*	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25	8	A5-2M8-24-24/345	1	7,0	15,0	24,0	11,0	24,0	8,4	300/100																	
	12	A5-2M12-3029/345	1	7,0	21,0	29,0	14,0	30,0	13,2	200/100																	
50	8	A10-2M8-2424/345	1	10,0	19,0	24,0	11,0	24,0	8,4	150/50																	
70	8	A14-2M8-2424/345	1	11,3	21,0	24,0	11,0	24,0	8,4	100/50																	
	10	A14-2M102426/315	2	11,3	21,0	26,0	11,0	24,0	10,5	100/50																	
	10	A14-2M102426/345	1	11,3	21,0	26,0	11,0	24,0	10,5	100/50																	
	12	A14-2M123029/345	1	11,3	22,0	29,0	14,0	30,0	13,2	100/50																	
95	8	A19-2M8-2424/345	1	13,5	25,0	24,0	11,0	24,0	8,4	75/25																	
	10	A19-2M102426/345	1	13,5	25,0	26,0	11,0	24,0	10,5	25																	
	12	A19-2M123029/345	1	13,5	25,0	29,0	14,0	30,0	13,2	75/25																	
120	8	A24-2M8-2429/345	1	15,2	28,5	29,0	11,0	24,0	8,4	50/25																	
	10	A24-2M102429/345	1	15,2	28,5	29,0	11,0	24,0	10,5	50/25																	
	12	A24-2M123029/345	1	15,2	28,5	29,0	14,0	30,0	13,2	50/25																	
150	8	A30-2M8-2429/345	1	16,7	31,5	29,0	11,0	24,0	8,4	30/15																	
	10	A30-2M102428/345	1	16,7	31,5	28,0	11,0	24,0	10,5	50/25																	
	12	A30-2M123029/345	1	16,7	31,5	29,0	14,0	30,0	13,2	40/20																	
185	10	A37-2M10-25/315	2	19,2	35,5	13,0	11,0	25,0	10,5	15																	
	12	A37-2M123031/345	1	19,2	35,5	31,0	14,0	30,0	13,2	30/15																	
240	12	A48-2M12/345	1	21,1	39,0	16,0	14,0	44,5	13,2	20/10																	
	12	A48-2M12-30/45	1	21,1	39,0	16,0	14,0	30,0	13,2	20/10																	
	12	A48-2M123031/345	1	21,1	39,0	31,0	14,0	30,0	13,2	20/10																	
300	12	A60-2M123038/345	1	23,7	44,0	38,0	14,0	30,0	13,2	20/10																	

*See page 203

Cu · ANGLED 315° · ANGLED 345° · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

A-2M series lugs angled 315° and 345° are manufactured from electrolytic copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
The double hole fixing ensures greater mechanical stability even in the presence of electrodynamic stresses.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically tinplated to avoid oxidation.
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

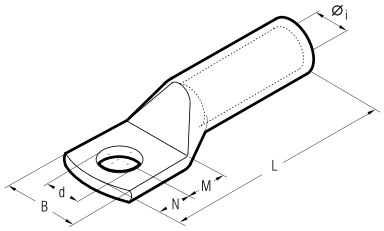
CEMBRE

2A-M

HEAVY DUTY COPPER TUBE TERMINALS

for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

The 2A-M series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV.
2A-M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed.
They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications.
The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications.
The terminals are electrolytically Tin plated to prevent atmospheric corrosion.
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools: HN5	HN-A25	TN70SE	TN120 SE*	Hydraulic Tools: B15MD	B450ND-BV	HT45-E	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
16	8	2A3-M8	5,8	15,0	9,0	8,0	43,5	8,4	600/100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10	2A3-M10	5,8	18,0	11,0	10,0	47,5	10,5	500/100																				
25	8	2A5-M8	7,0	15,0	9,0	8,0	51,0	8,4	400/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10	2A5-M10	7,0	18,0	11,0	10,0	55,0	10,5	300/50																				
	12	2A5-M12	7,0	21,0	14,0	12,0	60,0	13,2	300/50																				
35	8	2A7-M8	8,9	17,0	9,0	8,0	53,0	8,4	200/50			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10	2A7-M10	8,9	19,0	11,0	10,0	57,0	10,5	200/50																				
	12	2A7-M12	8,9	21,0	14,0	12,0	62,0	13,2	200/50																				
50	10	2A10-M10	10,0	20,0	11,0	10,0	63,0	10,5	100/50			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A10-M12	10,0	21,0	14,0	12,0	68,0	13,2	100/50																				
	14	2A10-M14	10,0	25,0	16,0	14,0	72,0	15,0	150/50																				
	16	2A10-M16	10,0	26,0	18,0	16,0	76,0	17,0	150/50																				
63 70	10	2A14-M10	11,3	21,0	11,0	10,0	70,0	10,5	100/50			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A14-M12	11,3	22,0	14,0	12,0	75,0	13,2	100/50																				
	14	2A14-M14	11,3	25,0	16,0	14,0	79,0	15,0	100/50																				
	16	2A14-M16	11,3	26,0	18,0	16,0	83,0	17,0	100/50																				
95	10	2A19-M10	13,5	25,0	11,0	10,0	76,5	10,5	50/25				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A19-M12	13,5	25,0	14,0	12,0	81,5	13,2	50/25																				
	14	2A19-M14	13,5	25,0	16,0	14,0	85,5	15,0	75/25																				
	16	2A19-M16	13,5	27,0	18,0	16,0	90,5	17,0	50/25																				
	20	2A19-M20	13,5	29,5	22,0	20,0	97,5	21,0	50/25																				
120 125	10	2A24-M10	15,2	28,5	11,0	10,0	82,0	10,5	30/15				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A24-M12	15,2	28,5	14,0	12,0	87,0	13,2	30/15																				
	14	2A24-M14	15,2	28,5	16,0	14,0	91,0	15,0	30/15																				
	16	2A24-M16	15,2	28,5	18,0	16,0	95,0	17,0	30/15																				
	20	2A24-M20	15,2	30,0	22,0	20,0	103,0	21,0	50/25																				
150	10	2A30-M10	16,7	31,5	13,0	11,0	92,0	10,5	30/15				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A30-M12	16,7	31,5	16,0	14,0	98,0	13,2	30/15																				
	14	2A30-M14	16,7	31,5	18,0	16,0	102,0	15,0	30/15																				
	16	2A30-M16	16,7	31,5	19,0	17,0	104,0	17,0	30/15																				
	20	2A30-M20	16,7	31,5	22,0	20,0	110,0	21,0	30/15																				
185	12	2A37-M12	19,2	35,5	16,0	14,0	108,0	13,2	20/10					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A37-M14	19,2	35,5	18,0	16,0	112,0	15,0	30/15																				
	16	2A37-M16	19,2	35,5	19,0	17,0	114,0	17,0	30/15																				
	20	2A37-M20	19,2	35,5	22,0	20,0	120,0	21,0	30/15																				
240	12	2A48-M12	21,1	39,0	16,0	14,0	109,0	13,2	20/5					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A48-M14	21,1	39,0	18,0	16,0	113,0	15,0	20/5																				
	16	2A48-M16	21,1	39,0	19,0	17,0	115,0	17,0	20/5																				
	20	2A48-M20	21,1	39,0	22,0	20,0	121,0	21,0	25/5																				
300	12	2A60-M12	23,7	44,0	20,0	14,0	129,5	13,2	15/5						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A60-M14	23,7	44,0	22,0	16,0	133,5	15,0	15/5																				
	16	2A60-M16	23,7	44,0	22,0	19,0	136,5	17,0	15/5																				
	20	2A60-M20	23,7	44,0	24,0	23,0	142,5	21,0	15/5																				
400	12	2A80-M12	27,0	51,0	22,0	19,0	140,0	13,2	15/5							●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A80-M14	27,0	51,0	22,0	19,0	140,0	15,0	10/5																				
	16	2A80-M16	27,0	51,0	22,0	19,0	140,0	17,0	10/5																				
	20	2A80-M20	27,0	51,0	24,0	23,0	146,0	21,0	15/5																				
500	16	2A100-M16	30,3	56,5	22,0	19,0	141,0	17,0	10/1																			●	●
	20	2A100-M20	30,3	56,5	24,0	23,0	147,0	21,0	10/1																				
630	16	2A120-M16♦	33,4	61,5	22,0	19,0	159,0	17,0	20/1																			●	●
	20	2A120-M20♦	33,4	61,5	24,0	23,0	165,0	21,0	20/1																				
800	20	2A160-M20♦	38,0	72,0	24,0	23,0	187,0	21,0	12/1																				●
1000	20	2A200-M20♦	44,0	80,0	24,0	23,0	202,0	21,0	6/1																				

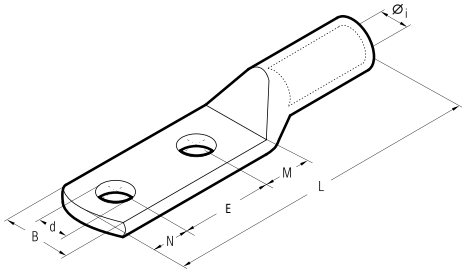
*See page 203

♦Not UL approved

HEAVY DUTY COPPER TUBE TERMINALS

2A-2M

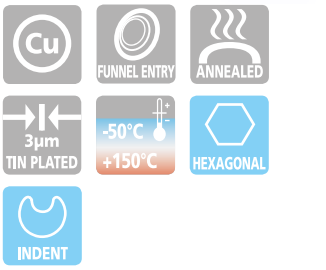
double hole fixing - for Copper conductors





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools									
			Øi	B	M	N	E	L	d		TN70SE	TN120 SE*	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
50	12	**2A10-2M12**	10,0	21,0	14,0	12,0	44,5	112,5	13,2	*75/25*										
70	12	**2A14-2M12**	11,3	22,0	16,0	14,0	44,5	123,5	13,2	*50/25*										
	14	**2A14-2M14**	11,3	25,0	18,0	16,0	44,5	127,5	15,0	*75/25*										
95	12	**2A19-2M12**	13,5	25,0	16,0	14,0	44,5	128,0	13,2	*50/25*										
	14	**2A19-2M14**	13,5	25,0	18,0	16,0	44,5	132,0	15,0	*50/25*										
120	12	**2A24-2M12**	15,2	28,5	16,0	14,0	44,5	135,5	13,2	*50/25*										
	14	**2A24-2M14**	15,2	28,5	18,0	16,0	44,5	139,5	15,0	*50/25*										
	16	**2A24-2M16**	15,2	28,5	18,0	17,0	44,5	140,5	17,0	*50/25*										
150	12	**2A30-2M12**	16,7	31,5	16,0	14,0	44,5	142,5	13,2	*30/15*										
	14	**2A30-2M14**	16,7	31,5	18,0	16,0	44,5	146,5	15,0	*30/15*										
185	12	**2A37-2M12**	19,2	35,5	16,0	14,0	44,5	152,5	13,2	*30/15*										
	14	**2A37-2M14**	19,2	35,5	18,0	16,0	44,5	156,5	15,0	*30/15*										
	16	**2A37-2M16**	19,2	35,5	19,0	17,0	44,5	158,5	17,0	*30/15*										
240	12	**2A48-2M12**	21,1	39,0	16,0	14,0	44,5	153,5	13,2	*20/5*										
	14	**2A48-2M14**	21,1	39,0	18,0	16,0	44,5	157,5	15,0	*25/5*										
	16	**2A48-2M16**	21,1	39,0	19,0	17,0	44,5	159,5	17,0	*25/5*										
300	12	**2A60-2M12**	23,7	44,0	20,0	14,0	44,5	174,0	13,2	*15/5*										
	14	**2A60-2M14**	23,7	44,0	22,0	16,0	44,5	178,0	15,0	*20/5*										
	16	**2A60-2M16**	23,7	44,0	19,0	17,0	44,5	176,0	17,0	*20/5*										
400	12	**2A80-2M12**	27,0	51,0	20,0	14,0	44,5	177,5	13,2	*10/5*										
	14	**2A80-2M14**	27,0	51,0	22,0	16,0	44,5	181,5	15,0	*10/5*										
	16	**2A80-2M16**	27,0	51,0	22,0	19,0	44,5	184,5	17,0	*15/5*										
500	12	**2A100-2M12**	30,3	56,5	20,0	14,0	44,5	178,5	13,2	*10/1*										
	14	**2A100-2M14**	30,3	56,5	22,0	16,0	44,5	182,5	15,0	*10/1*										
	16	**2A100-2M16**	30,3	56,5	22,0	19,0	44,5	185,5	17,0	*8/1*										
630	12	**2A120-2M12♦**	33,4	61,5	20,0	14,0	44,5	196,5	13,2	*15/1*										
	14	**2A120-2M14♦**	33,4	61,5	22,0	19,0	44,5	200,5	15,0	*15/1*										
	16	**2A120-2M16♦**	33,4	61,5	22,0	19,0	44,5	203,5	17,0	*10/1*										
800	14	**2A160-2M14♦**	38,0	72,0	22,0	19,0	44,5	225,5	15,0	*10/1*										
	16	**2A160-2M16♦**	38,0	72,0	24,0	19,0	44,5	227,5	17,0	*10/1*										
1000	12	**2A200-2M12♦**	44,0	80,0	20,0	14,0	44,5	233,5	13,2	*6/2*										
	16	**2A200-2M16♦**	44,0	80,0	22,0	19,0	44,5	240,5	17,0	*5/1*										
	20	**2A200-2M20♦**	44,0	80,0	24,0	23,0	44,5	246,5	21,0	*6/2*										

*See page 203



The 2A-2M series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV.
2A-2M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed.
They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications.
The double hole fixing ensures greater mechanical stability even in the presence of electrodynamic stresses.
The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications.
The terminals are electrolytically Tin plated to prevent atmospheric corrosion.
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

♦*Not UL approved*

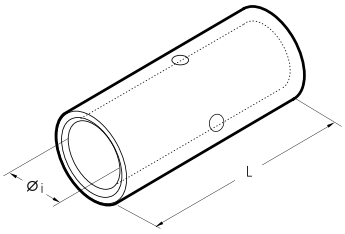
CEMBRE

L-M

THROUGH CONNECTORS

for Copper conductors





Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools				Hydraulic Tools																
Low Stranded	Flexible		Øi	L		HN1	HN5	HN-A25	TN70SE	TN120 SE*	B15MD	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
0,25÷1,5	0,25÷1,5	L03-M♦	1,8	15	5.000/100																					
1,5÷2,5	1,5÷2,5	L06-M♦	2,4	15	4.000/100																					
4÷6	4÷6	L1-M	3,6	22	2.000/100																					
10	10	L2-M	4,6	25	1.000/100																					
16	16	L3-M	5,8	27	500/100																					
25	25	L5-M	7,0	29	500/100																					
35	25÷35	L7-M	8,9	33	400/100																					
50	35÷50	L10-M	10,0	37	200/50																					
70	50÷70	L14-M	11,3	39	200/50																					
95	70÷95	L19-M	13,5	43	100/25																					
120	95÷120	L24-M	15,2	47	75/25																					
150	120÷150	L30-M	16,7	58	50/25																					
185	150÷185	L37-M	19,2	64	30/15																					
240	185÷240	L48-M	21,1	75	20/10																					
300	240÷300	L60-M	23,7	90	20/10																					
400	300÷400	L80-M	27,0	94	15/5																					
500	400÷500	L100-M	30,3	98	12/1																					
630	500÷630	L120-M♦	33,4	105	10/1																					
800	600	L160-M♦	38,0	112	6/1																					
1000	800	L200-M♦	44,0	120	6/1																					

*See page 203

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

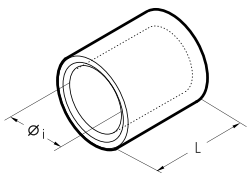
L-M range of connectors are designed for jointing low voltage conductors.
Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimension as A-M series lugs: L-M connectors are annealed and electrolytically Tin plated.
They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

L-P

PARALLEL CONNECTORS

for Copper conductors





Total Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools				Hydraulic Tools																
Low Stranded	Flexible		Øi	L		HN1	HN5	HN-A25	TN70SE	TN120 SE*	B15MD	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
0,25÷1,5	0,25÷1,5	L03-P	1,8	6,0	8.000/100																					
1,5÷2,5	1,5÷2,5	L06-P	2,4	6,0	5.000/100																					
4÷6	4÷6	L1-P	3,6	9,0	3.000/100																					
10	10	L2-P	4,6	10,5	2.000/100																					
16	16	L3-P	5,8	11,5	1.500/100																					
25	25	L5-P	7,0	13,0	1.000/100																					
35	25÷35	L7-P	8,9	14,0	500/100																					
50	35÷50	L10-P	10,0	16,0	500/100																					
70	50÷70	L14-P	11,3	18,0	500/100																					
95	70÷95	L19-P	13,5	19,0	200/50																					
120	95÷120	L24-P	15,2	22,0	200/50																					
150	120÷150	L30-P	16,7	26,5	100/50																					
185	150÷185	L37-P	19,2	26,5	100/50																					
240	185÷240	L48-P	21,1	34,0	60/15																					
300	240÷300	L60-P	23,7	43,0	50/25																					

*See page 203

♦Not UL approved

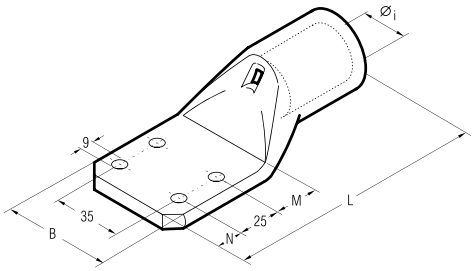
Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimensions as A-M series lugs, L-P connectors are annealed and electrolytically Tin plated.
They feature an internal taper to ease the introduction of the conductor.
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

COPPER TUBE LUGS 4-ESI FIXING

A-4ESI

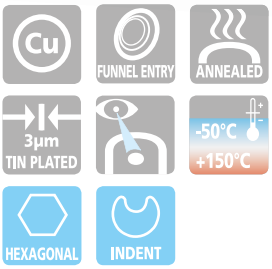
for Copper conductors





Conductor Size sqmm	Type	Dimensions mm					Quantity Box/Bag	Hydraulic Tools							
		Ø	B	M	N	L		HT51 B550	RH 50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
185	A 37-4ESI	19,2	61,0	20	15	124	20/10							
240	A 48-4ESI	21,1	61,0	20	15	128	20/10							
300	A 60-4ESI	23,7	61,0	20	15	133	15/5							
400	A 80-4ESI	27,0	61,0	20	15	134	15/5							
500	A 100-4ESI	30,3	61,0	20	15	139	10/5							
630	A 120-4ESI	33,4	61,6	20	15	144	10/5							
800	A 160-4ESI	38,0	61,0	20	15	158	8/1							





A-4ESI series lugs are made from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The four hole stud fixing in accordance with E.A. specifications ensures compatibility with most transformer fixing arrangements.

Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

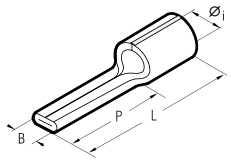
CEMBRE

A-P

UNINSULATED PIN CONNECTORS

for Copper conductors





Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT | HEXAGONAL

Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools					Hydraulic Tools						
Low Stranded	Flex		Øi	B	P	L		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	10	**A2-P12**	4,8	4,3	14,5	23,5	*1.500/100*	●	●	●	●	●	●	●	●	●	●	●
16	16	**A3-P14**	5,9	5,5	18,0	28,0	*1.000/100*	●	●	●	●	●		●	●	●	●	●
25	25	**A5-P16**	7,0	7,0	20,3	32,0	*500/100*	●	●	●	●	●		●	●	●	●	●
35	25÷35	**A7-P20**	8,9	8,0	24,5	39,0	*500/100*	●	●	●	●	●		●	●	●	●	●
50	35÷50	**A10-P25**	10,0	9,5	26,0	45,0	*250/50*	●	●	●	●	●		●	●	●	●	●
70	50÷70	**A14-P30**	11,5	11,0	31,0	55,0	*200/50*	●	●	●	●	●		●	●	●	●	●

A-P series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

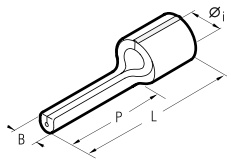
Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

A-PR

UNINSULATED ROUND PIN CONNECTORS

for Copper conductors





Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT | HEXAGONAL

Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools					Hydraulic Tools						
Low Stranded	Flex		Øi	B	P	L		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
16	16	**A3-P22R**	5,9	4,0	22,0	32,0	*1.000/100*	●	●	●	●	●		●	●	●	●	●
25	25	**A5-P22R**	7,0	4,0	22,0	33,7	*500/100*			●	●	●		●	●	●	●	●

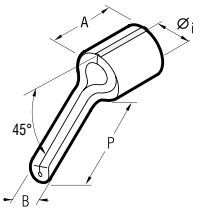
A-PR series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

UNINSULATED ROUND PIN CONNECTORS ANGLED 45°

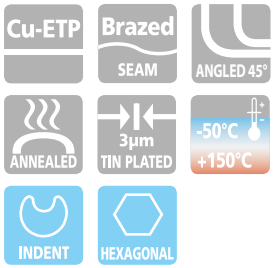
A-PR/45

for Copper conductors





Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools					Hydraulic Tools								
Low Stranded	Flex		Øi	B	P	A		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D			
16	16	**A3-P22R/45**	5,9	4,0	22,0	10,0	*1.000/100*														
25	25	**A5-P22R/45**	7,0	4,0	22,0	11,7	*500/100*														



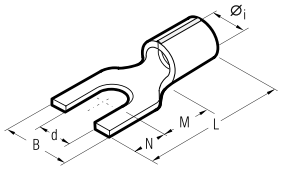
A-PR/45 series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

Details of the appropriate crimping tools and dies are shown on pages 368 to 369.

UNINSULATED FORK TERMINALS

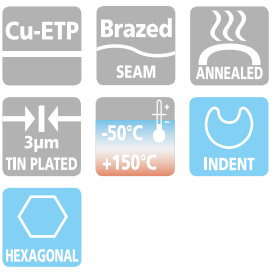
A-U

for Copper conductors





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools					Hydraulic Tools								
			Øi	B	M	N	L	d		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D			
10	4	**A2-U4**	4,8	9,8	7,5	7,0	23,5	4,3	*1.500/100*														
	5	**A2-U5**	4,8	11,5	7,5	7,0	23,5	5,3	*1.500/100*														
16	4	**A3-U4**	5,9	10,0	10,0	8,0	28,0	4,3	*1.000/100*														
	5	**A3-U5**	5,9	11,5	10,0	8,0	28,0	5,3	*1.000/100*														



A-U series fork terminals are designed to terminate conductors into contact blocks.
Made from electrolytic Copper strip with a purity greater than 99.9%, rolled and Tin plated.

The seam is brazed to provide uniform mechanical strength.
The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.
Recommended crimping tools are shown on pages 368 to 369.

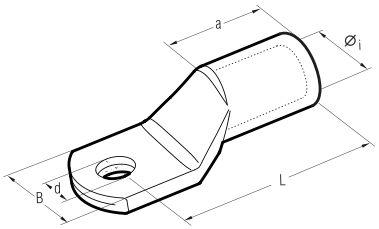
CEMBRE

DR-N

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

for Copper conductors





c UL us File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46235 · -50°C +150°C · HEXAGONAL

DR-N series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
Dimensions are according to DIN 46235.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm^2).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 378.

Consult us for special requirements

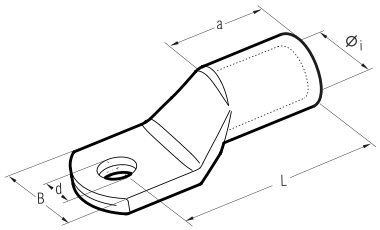
Conductor Size sqmm	Ø Stud mm	Type	Code	Dimensions mm Øi	d	L	B	a	Quantity Box/Bag	Mechanical Tools: HN-D25	TNE-D50	TNE-D120	TN60C	Hydraulic Tools: B15MD	HT45-E B450ND-BV	HT51 RH50 RHM50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
6	5	DR6-5N	5	3,8	5,3	25,0	8,5	10,0	800/100												
	6	DR6-6N	5	3,8	6,4	25,0	8,5	10,0	800/100												
	8	DR6-8N*	5	3,8	8,4	25,0	12,5	10,0	800/100												
10	5	DR10-5N	6	4,5	5,3	28,0	9,0	13,0	800/100												
	6	DR10-6N	6	4,5	6,4	28,0	9,0	13,0	800/100												
	8	DR10-8N*	6	4,5	8,4	28,0	13,0	13,0	800/100												
	10	DR10-10N*	6	4,5	10,5	28,0	17,0	13,0	800/100												
16	6	DR16-6N	8	5,5	6,4	37,0	13,0	20,0	400/100												
	8	DR16-8N	8	5,5	8,4	37,0	13,0	20,0	400/100												
	10	DR16-10N	8	5,5	10,5	37,0	17,0	20,0	400/100												
	12	DR16-12N*	8	5,5	13,0	39,0	19,0	20,0	400/100												
25	6	DR25-6N	10	7,0	6,4	39,0	14,0	20,0	400/100												
	8	DR25-8N	10	7,0	8,4	39,0	16,0	20,0	300/100												
	10	DR25-10N	10	7,0	10,5	39,0	17,0	20,0	200/100												
	12	DR25-12N	10	7,0	13,0	40,0	19,0	20,0	200/100												
35	6	DR35-6N*	12	8,2	6,4	41,0	17,0	20,0	200/50												
	8	DR35-8N	12	8,2	8,4	43,0	17,0	20,0	200/50												
	10	DR35-10N	12	8,2	10,5	43,0	19,0	20,0	200/50												
	12	DR35-12N	12	8,2	13,0	43,0	21,0	20,0	200/50												
	16	DR35-16N*	12	8,2	17,0	47,0	26,0	20,0	200/50												
50	6	DR50-6N*	14	10,0	6,4	53,0	20,0	28,0	100/25												
	8	DR50-8N	14	10,0	8,4	53,0	20,0	28,0	100/25												
	10	DR50-10N	14	10,0	10,5	53,0	22,0	28,0	100/25												
	12	DR50-12N	14	10,0	13,0	53,0	24,0	28,0	100/25												
	16	DR50-16N	14	10,0	17,0	53,0	28,0	28,0	100/25												
70	8	DR70-8N	16	11,5	8,4	56,0	24,0	28,0	50/25												
	10	DR70-10N	16	11,5	10,5	56,0	24,0	28,0	50/25												
	12	DR70-12N	16	11,5	13,0	56,0	24,0	28,0	50/25												
	16	DR70-16N	16	11,5	17,0	56,0	30,0	28,0	50/25												
	20	DR70-20N*	16	11,5	21,0	64,0	30,0	28,0	50/25												
95	8	DR95-8N*	18	13,5	8,4	66,0	28,0	35,0	50/25												
	10	DR95-10N	18	13,5	10,5	66,0	28,0	35,0	50/25												
	12	DR95-12N	18	13,5	13,0	66,0	28,0	35,0	50/25												
	16	DR95-16N	18	13,5	17,0	66,0	32,0	35,0	50/25												
	20	DR95-20N*	18	13,5	21,0	74,0	32,0	35,0	50/25												
120	8	DR120-8N*	20	15,5	8,4	71,0	30,0	35,0	20/10												
	10	DR120-10N	20	15,5	10,5	71,0	32,0	35,0	20/10												
	12	DR120-12N	20	15,5	13,0	71,0	32,0	35,0	20/10												
	16	DR120-16N	20	15,5	17,0	71,0	32,0	36,0	20/10												
	20	DR120-20N	20	15,5	21,0	71,0	38,0	36,0	20/10												
150	10	DR150-10N	22	17,0	10,5	79,0	34,0	39,0	30/15												
	12	DR150-12N	22	17,0	13,0	79,0	34,0	39,0	30/15												
	16	DR150-16N	22	17,0	17,0	79,0	34,0	39,0	30/15												
	20	DR150-20N	22	17,0	21,0	79,0	40,0	39,0	30/15												
185	10	DR185-10N	25	19,0	10,5	83,0	37,0	40,0	25/5												
	12	DR185-12N	25	19,0	13,0	83,0	37,0	40,0	25/5												
	16	DR185-16N	25	19,0	17,0	83,0	37,0	40,0	25/5												
	20	DR185-20N	25	19,0	21,0	83,0	40,0	40,0	25/5												
240	10	DR240-10N*	28	21,5	10,5	92,0	42,0	46,0	20/10												
	12	DR240-12N	28	21,5	13,0	92,0	42,0	46,0	20/10												
	16	DR240-16N	28	21,5	17,0	93,0	42,0	46,0	20/10												
	20	DR240-20N	28	21,5	21,0	93,0	45,0	46,0	20/10												

** Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.*

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

for Copper conductors

DR-N



Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46235 · -50°C +150°C · HEXAGONAL

Consult us for special requirements

Conductor Size sqmm	Ø Stud mm	Type	Code	Dimensions mm Øi	d	L	B	a	Quantity Box/Bag	Mechanical Tools: TN60C	Hydraulic Tools: RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
300	12	DR300-12N*	32	24,5	13,0	101,0	48,0	51,0	10/5	●	●	●	●	●	●
	16	DR300-16N	32	24,5	17,0	101,0	48,0	51,0	10/5	●	●	●	●	●	●
	20	DR300-20N	32	24,5	21,0	101,0	48,0	51,0	10/5	●	●	●	●	●	●
400	12	DR400-12N*♦	38	27,5	13,0	116,0	55,0	70,0	5/1					●	●
	16	DR400-16N♦	38	27,5	17,0	116,0	55,0	70,0	5/1					●	●
	20	DR400-20N♦	38	27,5	21,0	116,0	55,0	70,0	5/1					●	●
500	12	DR500-12N*♦	42	31,0	13,0	125,0	60,0	70,0	5/1					●	●
	16	DR500-16N*♦	42	31,0	17,0	125,0	60,0	70,0	5/1					●	●
	20	DR500-20N♦	42	31,0	21,0	125,0	60,0	70,0	5/1					●	●
625	12	DR625-12N♦	44	34,5	13,0	136,0	60,0	80,0	5/1					●	●
	16	DR625-16N♦	44	34,5	17,0	136,0	60,0	80,0	5/1					●	●
	20	DR625-20N♦	44	34,5	21,0	136,0	60,0	80,0	5/1					●	●
800	20	DR800-20N♦	52	40,0	21,0	166,0	75,0	100,0	5/1						●
1.000	20	DR1000-20N♦	58	44,0	21,0	166,0	85,0	100,0	5/1						●

** Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.*

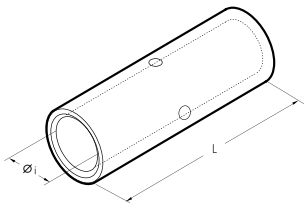
♦Not UL approved

CRIMPING THROUGH CONNECTORS ACCORDING TO DIN 46267 T.1

for Copper conductors

DSV





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46267T.1 · -50°C +150°C · HEXAGONAL

DSV series through connectors are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and surface protected by tin plating.
Internal and external dimensions match those of DR series lugs.
Chamfered ends and a central stop provide easy and correct insertion of the conductor.
Details of the appropriate crimping tools and dies are shown on page 378.

Consult us for special requirements

Conductor Size sqmm	Type	Code	Dimensions mm Øi	L	Quantity Box/Bag	Mechanical Tools: HN-D25	TNE-D50	TNE-D120	TN60C	Hydraulic Tools: B15MD	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
6	DSV6	5	3,7	30	1.200/100													
10	DSV10	6	4,5	30	1.200/100	●												
16	DSV16	8	5,5	50	400/100	●												
25	DSV25	10	7,0	50	200/100	●	●											
35	DSV35	12	8,2	50	200/100		●											
50	DSV50	14	10,0	56	200/50		●											
70	DSV70	16	11,5	56	100/50			●										
95	DSV95	18	13,5	70	100/50			●										
120	DSV120	20	15,5	70	50/25			●										
150	DSV150	22	17,0	80	50/25				●									
185	DSV185	25	19,0	85	25/25				●									
240	DSV240	28	21,5	90	15/15				●									
300	DSV300	32	24,5	100	10/5				●									
400	DSV400	38	27,5	150	10/5												●	●
500	DSV500	42	31,0	160	5/5												●	●
625	DSV625	44	34,5	160	5/5												●	●
800	DSV800	52	40,0	200	5/5													●
1.000	DSV1000	58	44,0	200	5/5													●

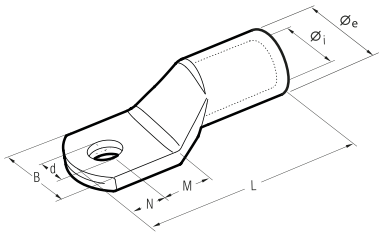
CEMBRE

HR-N

COPPER TUBE CRIMPING LUGS

for Copper conductors





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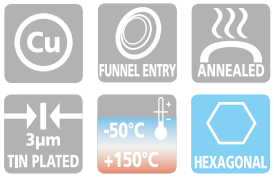


HR-N series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm^2).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 378.

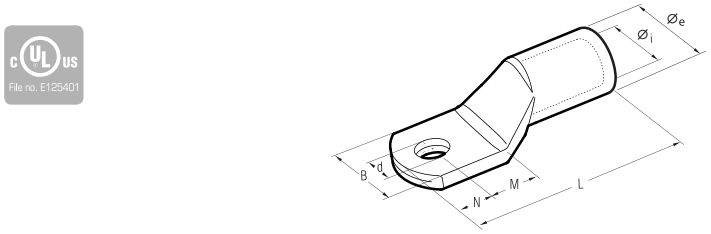
Consult us for special requirements

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools						Hydraulic Tools														
			Øi	Øe	B	M	N	L	d		HN1	HN5	HN-H25	TNE-H50	TNE-H120	TN60C	B15MD	HT45-E	B450ND-BV	HT51	RH50	RHM50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
6	4	HR6-4N	3,5	6,5	10,0	7,5	6,5	27,5	4,3	800/100																					
	5	HR6-5N	3,5	6,5	10,0	7,5	6,5	27,5	5,3	800/100																					
	6	HR6-6N	3,5	6,5	11,5	7,5	6,5	27,5	6,4	800/100																					
	8	HR6-8N	3,5	6,5	15,0	10,0	10,0	33,5	8,4	800/100																					
	10	HR6-10N	3,5	6,5	17,0	12,0	12,0	37,5	10,5	800/100																					
	12	HR6-12N	3,5	6,5	19,0	15,0	13,5	42,0	13,2	800/100																					
10	4	HR10-4N	4,5	7,0	12,0	7,5	6,5	28,5	4,3	600/100																					
	5	HR10-5N	4,5	7,0	12,0	7,5	6,5	28,5	5,3	600/100																					
	6	HR10-6N	4,5	7,0	12,0	7,5	6,5	28,5	6,4	600/100																					
	8	HR10-8N	4,5	7,0	15,0	10,0	10,0	34,5	8,4	600/100																					
	10	HR10-10N	4,5	7,0	17,0	12,0	12,0	38,5	10,5	600/100																					
	12	HR10-12N	4,5	7,0	19,0	13,0	13,0	40,5	13,2	600/100																					
16	5	HR16-5N	5,5	8,5	12,0	7,0	6,0	31,5	5,3	400/100																					
	6	HR16-6N	5,5	8,5	12,0	7,5	6,5	32,5	6,4	400/100																					
	8	HR16-8N	5,5	8,5	15,0	9,5	8,5	36,5	8,4	400/100																					
	10	HR16-10N	5,5	8,5	17,0	11,5	10,5	40,5	10,5	400/100																					
	12	HR16-12N	5,5	8,5	19,0	13,0	12,0	43,5	13,2	400/100																					
25	5	HR25-5N	7,0	10,0	14,0	7,5	7,5	37,0	5,3	400/100																					
	6	HR25-6N	7,0	10,0	14,0	7,5	7,5	37,0	6,4	200/100																					
	8	HR25-8N	7,0	10,0	16,0	10,0	10,0	42,0	8,4	200/100																					
	10	HR25-10N	7,0	10,0	18,0	12,0	12,0	46,0	10,5	200/100																					
	12	HR25-12N	7,0	10,0	19,0	13,0	13,0	48,0	13,2	200/100																					
	14	HR25-14N	7,0	10,0	21,0	14,0	14,5	50,5	15,0	200/100																					
35	6	HR35-6N	8,5	12,0	17,0	7,5	7,5	39	6,4	200/50																					
	8	HR35-8N	8,5	12,0	17,0	10,0	10,0	44	8,4	200/50																					
	10	HR35-10N	8,5	12,0	19,0	12,0	12,0	48	10,5	200/50																					
	12	HR35-12N	8,5	12,0	21,0	13,0	13,0	50	13,2	200/50																					
	14	HR35-14N	8,5	12,0	21,0	14,5	14,5	53	15,0	200/50																					
	16	HR35-16N	8,5	12,0	26,0	18,0	16,0	58	17,0	200/50																					
50	6	HR50-6N	10,0	14,0	20,0	10,0	10,0	47,0	6,4	100/25																					
	8	HR50-8N	10,0	14,0	20,0	10,0	10,0	47,0	8,4	100/25																					
	10	HR50-10N	10,0	14,0	20,0	12,0	12,0	51,0	10,5	100/25																					
	12	HR50-12N	10,0	14,0	23,0	13,0	13,0	53,0	13,2	100/25																					
	14	HR50-14N	10,0	14,0	23,0	14,5	14,5	56,0	15,0	100/25																					
	16	HR50-16N	10,0	14,0	28,0	16,0	16,0	59,0	17,0	100/25																					
	20	HR50-20N	10,0	14,0	30,0	19,0	19,0	65,0	21,0	100/25																					
70	6	HR70-6N	12,0	16,5	23,5	10,0	10,0	52,0	6,4	100/25																					
	8	HR70-8N	12,0	16,5	23,5	10,0	10,0	52,0	8,4	100/25																					
	10	HR70-10N	12,0	16,5	23,5	12,0	12,0	56,0	10,5	100/25																					
	12	HR70-12N	12,0	16,5	23,5	13,0	13,0	58,0	13,2	100/25																					
	14	HR70-14N	12,0	16,5	23,5	14,5	14,5	61,0	15,0	100/25																					
	16	HR70-16N	12,0	16,5	28,0	16,0	16,0	64,0	17,0	100/25																					
	20	HR70-20N	12,0	16,5	30,5	19,0	19,0	70,0	21,0	100/25																					
95	8	HR95-8N	13,5	18,0	26,0	12,0	12,0	60,0	8,4	100/25																					
	10	HR95-10N	13,5	18,0	26,0	12,0	12,0	60,0	10,5	100/25																					
	12	HR95-12N	13,5	18,0	26,0	13,0	13,0	62,0	13,2	100/25																					
	14	HR95-14N	13,5	18,0	26,0	14,5	14,5	65,0	15,0	75/25																					
	16	HR95-16N	13,5	18,0	28,0	16,0	16,0	68,0	17,0	75/25																					
	20	HR95-20N	13,5	18,0	36,0	22,0	22,0	80,0	21,0	75/25																					
120	8	HR120-8N	15,0	19,5	28,0	14,0	14,0	65,0	8,4	30/10																					
	10	HR120-10N	15,0	19,5	28,0	14,0	14,0	65,0	10,5	30/10																					
	12	HR120-12N	15,0	19,5	28,0	14,0	14,0	65,0	13,2	30/10																					
	14	HR120-14N	15,0	19,5	28,0	15,0	15,0	67,0	15,0	30/10																					
	16	HR120-16N	15,0	19,5	30,0	16,0	16,0	69,0	17,0	30/10																					
	20	HR120-20N	15,0	19,5	36,0	22,0	22,0	81,0	21,0	30/10																					
150	8	HR150-8N	16,5	21,0	31,0	14,0	14,0	70,0	8,4	30/10																					
	10	HR150-10N	16,5	21,0	31,0	14,0	14,0	70,0	10,5	30/10																					
	12	HR150-12N	16,5	21,0	31,0	15,0	15,0	72,0	13,2	30/10																					
	14	HR150-14N	16,5	21,0	31,0	15,0	15,0	72,0	15,0	30/10																					
	16	HR150-16N	16,5	21,0	31,0	16,0	16,0	74,0	17,0	30/10																					
	20	HR150-20N	16,5	21,0	36,0	22,0	22,0	88,0	21,0	30/10																					

COPPER TUBE CRIMPING LUGS

for Copper conductors

HR-N



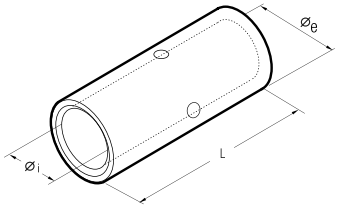
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools						
			Øi	Øe	B	M	N	L	d		TN60C	HT51 RH50 RHM50 B500 HT60C B500ND B600C RH60C B600CND			HT81-UD RHU81D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
185	10	HR185-10N	19,0	24,0	35,0	18,0	18,0	83,0	10,5	30/10							
	12	HR185-12N	19,0	24,0	35,0	18,0	18,0	83,0	13,2	30/10							
	14	HR185-14N	19,0	24,0	35,0	18,0	18,0	83,0	15,0	30/10							
	16	HR185-16N	19,0	24,0	35,0	18,0	18,0	83,0	17,0	30/10							
	20	HR185-20N	19,0	24,0	39,0	22,0	22,0	91,0	21,0	30/10							
240	10	HR240-10N	21,0	26,0	39,0	19,0	21,5	93,5	10,5	30/10							
	12	HR240-12N	21,0	26,0	39,0	19,0	21,5	93,5	13,2	30/10							
	14	HR240-14N	21,0	26,0	39,0	19,0	21,5	93,5	15,0	30/10							
	16	HR240-16N	21,0	26,0	39,0	19,0	21,5	93,5	17,0	30/10							
	20	HR240-20N	21,0	26,0	39,0	19,0	21,5	93,5	21,0	30/10							
300	12	HR300-12N	23,5	29,5	44,0	21,0	24,0	111,0	13,2	10/5							
	14	HR300-14N	23,5	29,5	44,0	21,0	24,0	111,0	15,0	10/5							
	16	HR300-16N	23,5	29,5	44,0	21,0	24,0	111,0	17,0	10/5							
	20	HR300-20N	23,5	29,5	44,0	21,0	24,0	111,0	21,0	10/5							

CRIMPING THROUGH CONNECTORS

for Copper conductors

HSV





Conductor Size sqmm	Type	Dimensions mm			Quantity Box/Bag	Mechanical Tools					Hydraulic Tools							
		Øi	Øe	L		HN1	HN-5	HN-H25	TNE-H50	TNE-H120 TN60C	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	HSV10	4,5	7,0	30	1200/100												
16	HSV16	5,5	8,5	35	800/100												
25	HSV25	7,0	10,0	40	400/100												
35	HSV35	8,5	12,0	45	200/50												
50	HSV50	10,0	14,0	50	200/50												
70	HSV70	12,0	16,5	55	160/40												
95	HSV95	13,5	18,0	60	80/10												
120	HSV120	15,0	19,5	65	80/10												
150	HSV150	16,5	21,0	70	80/10												
185	HSV185	19,0	24,0	75	40/20												
240	HSV240	21,0	26,0	85	40/20												
300	HSV300	23,5	29,5	100	20/10												

HSV series through connectors are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and surface protected by tin plating.
Internal and external dimensions match those of HR series lugs.
Chamfered ends and a central stop provide easy and correct insertion of the conductor.
Details of the appropriate crimping tools and dies are shown on page 378.

Consult us for special requirements

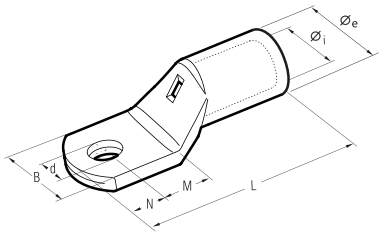
CEMBRE

HRS-N

COPPER TUBE CRIMPING LUGS

for Copper conductors - with inspection hole





c UL us File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL

HRS-N series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm^2).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 378.

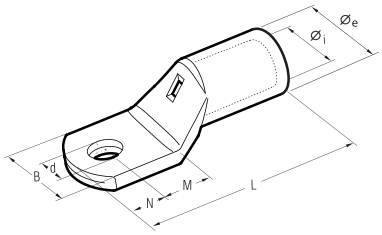
Consult us for special requirements

| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | | Hydraulic Tools | | | | | | |

COPPER TUBE CRIMPING LUGS

for Copper conductors - with inspection hole

File no. E125401



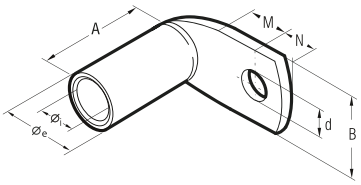
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools				
			Øi	Øe	B	M	N	L	d		TN60C	HT51	RH50 RHM50 B500 B500ND RH60C HT60C B600C B600CND	HT81-UD RHU81D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
185	10	HRS185-10N	19,0	24,0	35,0	18,0	18,0	83,0	10,5	30/10						
	12	HRS185-12N	19,0	24,0	35,0	18,0	18,0	83,0	13,2	30/10						
	14	HRS185-14N	19,0	24,0	35,0	18,0	18,0	83,0	15,0	30/10						
	16	HRS185-16N	19,0	24,0	35,0	18,0	18,0	83,0	17,0	30/10						
	20	HRS185-20N	19,0	24,0	39,0	22,0	22,0	91,0	21,0	30/10						
240	10	HRS240-10N	21,0	26,0	39,0	19,0	21,5	93,5	10,5	30/10						
	12	HRS240-12N	21,0	26,0	39,0	19,0	21,5	93,5	13,2	30/10						
	14	HRS240-14N	21,0	26,0	39,0	19,0	21,5	93,5	15,0	30/10						
	16	HRS240-16N	21,0	26,0	39,0	19,0	21,5	93,5	17,0	30/10						
	20	HRS240-20N	21,0	26,0	39,0	19,0	21,5	93,5	21,0	30/10						
300	12	HRS300-12N	23,5	29,5	44,0	21,0	24,0	111,0	13,2	10/5						
	14	HRS300-14N	23,5	29,5	44,0	21,0	24,0	111,0	15,0	10/5						
	16	HRS300-16N	23,5	29,5	44,0	21,0	24,0	111,0	17,0	10/5						
	20	HRS300-20N	23,5	29,5	44,0	21,0	24,0	111,0	21,0	10/5						

HR-LN

COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors





cULus File no. E125401

Cu · ANGLED 90° · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL

HR-LN series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm²).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 378.

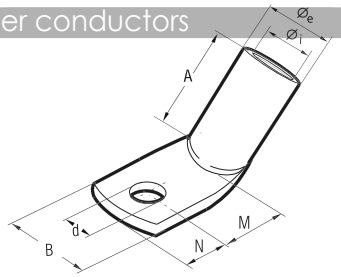
Consult us for special requirements

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	Øe	B	M	N	A	d	Quantity Box/Bag	Mechanical Tools: HN1	HN5	HN-H25	TNE-H50	TNE-H120	TN60C	Hydraulic Tools: B15MD	HT45-E B450ND-BV	HT51	RH50 RHM50 B500 B500ND RH60C HT60C B600C B600CND	HT81-UD RHU81D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
6	4	HR6-L4N	3,5	6,5	10,0	8,5	7,5	10,5	4,3	400/100													
	5	HR6-L5N	3,5	6,5	10,0	8,5	7,5	10,5	5,3	400/100													
	6	HR6-L6N	3,5	6,5	11,5	8,5	7,5	10,5	6,4	400/100													
	8	HR6-L8N	3,5	6,5	15,0	11,0	10,0	10,5	8,4	400/100													
	10	HR6-L10N	3,5	6,5	17,0	13,0	12,0	10,5	10,5	400/100													
	12	HR6-L12N	3,5	6,5	19,0	13,5	13,5	10,5	13,2	400/100													
10	4	HR10-L4N	4,5	7,0	12,0	8,5	7,5	10,5	4,3	400/100	HN1												
	5	HR10-L5N	4,5	7,0	12,0	8,5	7,5	10,5	5,3	400/100													
	6	HR10-L6N	4,5	7,0	12,0	8,5	7,5	10,5	6,4	400/100													
	8	HR10-L8N	4,5	7,0	15,0	11,0	10,0	10,5	8,4	400/100													
	10	HR10-L10N	4,5	7,0	17,0	13,0	12,0	10,5	10,5	400/100													
	12	HR10-L12N	4,5	7,0	19,0	16,0	13,5	10,5	13,2	400/100													
16	5	HR16-L5N	5,5	8,5	12,0	8,5	7,5	12,0	5,3	400/100		HN5					B15MD						
	6	HR16-L6N	5,5	8,5	12,0	8,5	7,5	12,0	6,4	400/100													
	8	HR16-L8N	5,5	8,5	15,0	11,0	10,0	12,0	8,4	400/100													
	10	HR16-L10N	5,5	8,5	17,0	13,0	12,0	12,0	10,5	400/100													
	12	HR16-L12N	5,5	8,5	19,0	16,0	13,5	12,0	13,2	400/100													
25	5	HR25-L5N	7,0	10,0	14,0	9,0	7,5	13,0	5,3	400/100			HN-H25										
	6	HR25-L6N	7,0	10,0	14,0	9,0	7,5	13,0	6,4	400/100													
	8	HR25-L8N	7,0	10,0	15,0	11,0	10,0	13,0	8,4	400/100													
	10	HR25-L10N	7,0	10,0	18,0	13,0	12,0	13,0	10,5	400/100													
	12	HR25-L12N	7,0	10,0	19,0	14,0	13,0	13,0	13,2	400/100													
35	6	HR35-L6N	8,5	12,0	17,0	9,0	7,5	15,5	6,4	200/50				TNE-H50									
	8	HR35-L8N	8,5	12,0	17,0	11,0	10,0	15,5	8,4	200/50													
	10	HR35-L10N	8,5	12,0	19,0	13,0	12,0	15,5	10,5	200/50													
	12	HR35-L12N	8,5	12,0	21,0	14,0	13,0	15,5	13,2	200/50													
	16	HR35-L16N	8,5	12,0	26,0	18,5	16,0	15,5	17,0	200/50													
50	6	HR50-L6N	10,0	14,0	20,0	11,0	10,0	18,5	6,4	100/50					TNE-H120								
	8	HR50-L8N	10,0	14,0	20,0	11,0	10,0	18,5	8,4	100/50													
	10	HR50-L10N	10,0	14,0	20,0	13,0	12,0	18,5	10,5	100/50													
	12	HR50-L12N	10,0	14,0	21,0	14,0	13,0	18,5	13,2	100/50													
	16	HR50-L16N	10,0	14,0	26,0	18,5	16,0	18,5	17,0	100/50													
	20	HR50-L20N	10,0	14,0	30,0	20,0	19,0	18,5	21,0	100/50													
70	6	HR70-L6N	12,0	16,5	21,0	12,0	10,0	20,0	6,4	80/20						TN60C							
	8	HR70-L8N	12,0	16,5	21,0	12,0	10,0	20,0	8,4	80/20													
	10	HR70-L10N	12,0	16,5	21,0	13,0	12,0	20,0	10,5	80/20													
	12	HR70-L12N	12,0	16,5	21,0	14,0	13,0	20,0	13,2	80/20													
	16	HR70-L16N	12,0	16,5	28,0	18,2	16,0	20,0	17,0	80/20													
	20	HR70-L20N	12,0	16,5	30,5	21,5	19,0	20,0	21,0	80/20													
95	8	HR95-L8N	13,5	18,0	26,0	12,0	10,0	24,5	8,4	80/20													
	10	HR95-L10N	13,5	18,0	26,0	13,0	12,0	24,5	10,5	80/20													
	12	HR95-L12N	13,5	18,0	26,0	14,0	13,0	24,5	13,2	80/20													
	16	HR95-L16N	13,5	18,0	28,0	19,0	16,0	24,5	17,0	80/20													
	20	HR95-L20N	13,5	18,0	31,0	23,0	21,0	24,5	21,0	80/20													
120	8	HR120-L8N	15,0	19,5	29,0	14,0	14,0	25,5	8,4	80/20													
	10	HR120-L10N	15,0	19,5	29,0	14,0	14,0	25,5	10,5	80/20													
	12	HR120-L12N	15,0	19,5	29,0	14,0	14,0	25,5	13,2	80/20													
	16	HR120-L16N	15,0	19,5	31,0	15,0	16,0	25,5	17,0	80/20													
	20	HR120-L20N	15,0	19,5	36,0	23,0	21,0	25,5	21,0	80/20													
150	8	HR150-L8N	16,5	21,0	31,0	14,0	14,0	28,5	8,4	40/10													
	10	HR150-L10N	16,5	21,0	31,0	14,0	14,0	28,5	10,5	40/10													
	12	HR150-L12N	16,5	21,0	31,0	15,0	15,0	28,5	13,2	40/10													
	16	HR150-L16N	16,5	21,0	31,0	19,0	16,0	28,5	17,0	40/10													
	20	HR150-L20N	16,5	21,0	36,0	23,0	21,0	28,5	21,0	40/10													
185	10	HR185-L10N	19,0	24,0	35,0	19,0	16,0	31,5	10,5	40/10													
	12	HR185-L12N	19,0	24,0	35,0	19,0	16,0	31,5	13,2	40/10													
	16	HR185-L16N	19,0	24,0	35,0	19,0	16,0	31,5	17,0	40/10													
	20	HR185-L20N	19,0	24,0	37,0	23,0	21,0	31,5	21,0	40/10													
240	10	HR240-L10N	21,0	26,0	39,0	19,0	16,0	36,5	10,5	20/10													
	12	HR240-L12N	21,0	26,0	39,0	19,0	16,0	36,5	13,2	20/10													
	16	HR240-L16N	21,0	26,0	39,0	19,0	16,0	36,5	17,0	20/10													
	20	HR240-L20N	21,0	26,0	39,0	23,0	21,0	36,5	21,0	20/10													
300	12	HR300-L12N	23,5	29,5	44,0	24,0	24,0	45,0	13,2	10/5													
	16	HR300-L16N	23,5	29,5	44,0	24,0	24,0	45,0	17,0	10/5													
	20	HR300-L20N	23,5	29,5	44,0	24,0	24,0	45,0	21,0	10/5													

COPPER TUBE CRIMPING LUGS ANGLED 45°

for Copper conductors

HR-/45N





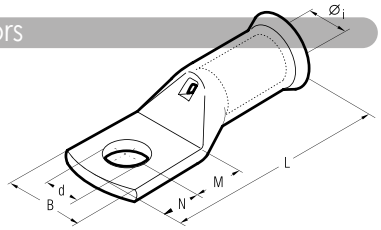
| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | | Hydraulic Tools | | | | | | |

T-M

COPPER TUBE CRIMPING LUGS ACCORDING TO NF C 20-130

for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · NF C 20-130 · -50°C +150°C · HEXAGONAL · INDENT

T-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The insertion of the cable is facilitated by a tulip out.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
Our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

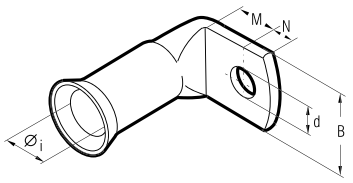
Details of the appropriate crimping tools and dies are shown on page 380.

| Conductor Size sqmm | | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | Mechanical Tools | | | | Hydraulic Tools | | | | | |

COPPER TUBE CRIMPING LUGS ANGLED 90°

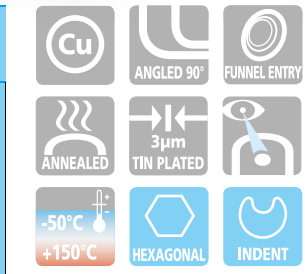
for Copper conductors

T-L





Conductor Size sqmm		Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	Mechanical Tools				Hydraulic Tools										
Low Str.	Flex			Øi	B	M	N	d		HN1	HN5	HN-T25	TNE-T50	TNE-T120	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
4÷6		6	T6-L6	3,3	13,0	9,0	8,0	6,4	800/100													
10		5	T10-L5	4,2	11,0	6,0	6,0	5,2	800/100													
		6	T10-L6	4,2	11,0	8,0	8,0	6,4	800/100													
		8	T10-L8	4,2	14,0	11,0	10,0	8,3	800/100													
16		6	T16-L6	5,3	12,0	9,0	8,0	6,4	400/100													
		8	T16-L8	5,3	16,0	11,0	10,0	8,3	400/100													
		10	T16-L10	5,3	16,0	14,0	12,0	10,3	400/100													
25		6	T25-L6	6,6	13,0	9,0	8,0	6,4	400/100													
		8	T25-L8	6,6	16,0	11,0	10,0	8,3	400/100													
		10	T25-L10	6,6	16,0	14,0	12,0	10,3	400/100													
35		6	T35-L6	7,9	15,0	9,0	8,0	6,4	400/50													
		8	T35-L8	7,9	17,0	11,0	10,0	8,3	200/50													
		10	T35-L10	7,9	17,0	14,0	12,0	10,3	200/50													
50		6	T50-L6	9,2	18,0	9,0	8,0	6,4	100/25													
		8	T50-L8	9,2	18,0	10,0	10,0	8,3	200/25													
		10	T50-L10	9,2	18,0	14,0	12,0	10,3	100/25													
70		10	T70-L8	11,0	21,0	11,0	10,0	8,3	100/25													
		10	T70-L10	11,0	21,0	14,0	12,0	10,3	100/25													
		12	T70-L12	11,0	21,0	18,0	16,0	12,8	100/25													
95		8	T95-L8	13,1	23,0	11,0	10,0	8,3	100/25													
		10	T95-L10	13,1	23,0	14,0	12,0	10,3	100/25													
		12	T95-L12	13,1	23,0	18,0	16,0	12,8	100/25													
120		10	T120-L10	14,5	28,0	14,0	12,0	10,3	50/25													
		12	T120-L12	14,5	28,0	18,0	16,0	12,8	50/25													
150		10	T150-L10	16,2	30,0	14,0	12,0	10,3	40/10													
		12	T150-L12	16,2	30,0	18,0	16,0	12,8	40/10													
185		10	T185-L10	18,0	33,0	14,0	12,0	10,3	40/10													



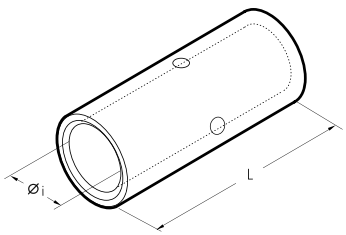
T-L series lugs angled 90° are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
T-L series lugs having the same dimensions and characteristics as T-M series lugs.

Details of the appropriate crimping tools and dies are shown on page 380.

CRIMPING THROUGH CONNECTORS

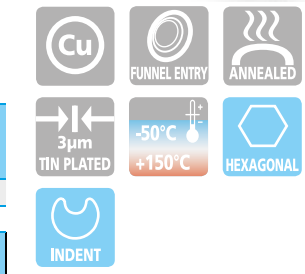
for Copper conductors

L-T





Total Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools					Hydraulic Tools											
Low Stranded	Flexible		Øi	L		HN1	HN5	HN-A25	TNE-T50	TNE-T120	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520				
4	4	L4-T	2,7	22	2.000/100																	
4÷6	4÷6	L6-T	3,3	25	1.500/100																	
10	10	L10-T	4,2	27	1.000/100																	
16	16	L16-T	5,3	31	500/100																	
25	25	L25-T	6,6	35	500/100																	
35	25	L35-T	7,9	37	250/50																	
50	35	L50-T	9,2	45	250/50																	
70	50	L70-T	11,0	50	200/50																	
95	70	L95-T	13,1	56	100/25																	
120	95	L120-T	14,5	60	100/25																	
150	120	L150-T	16,2	66	50/25																	
185	150	L185-T	18,0	75	50/25																	
240	185	L240-T	20,6	80	30/15																	
300	240	L300-T	23,1	90	20/10																	
400	300	L400-T	26,1	100	20/5																	



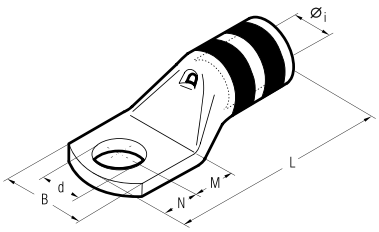
Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimensions as T-M series lugs, L-T connectors are annealed and electrolytically Tin plated. They feature an internal taper to ease the introduction of the conductor.
Details of the appropriate crimping tools and dies are shown on page 380.

CEMBRE

COLOUR CODED COPPER CRIMPING LUGS

for Copper conductors





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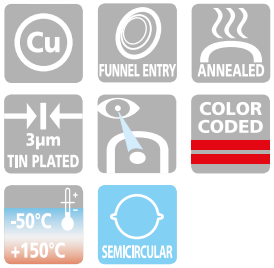


C series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor. The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for CEMBRE tools.
UL listed for US and Canada per UL486A up to 35 KV.
C series lugs are an important part of CEMBRE crimping systems for power carrying conductors.

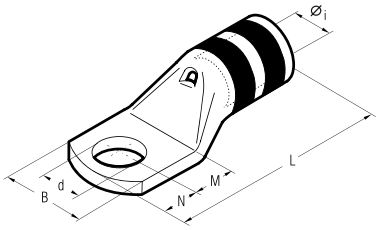
Details of the appropriate crimping tools and dies are shown on page 379.

CEMBRE technicians are available to provide technical advice as required.
Please consult CEMBRE for products not listed.

Cond. Size sqmm	Conductor AWG Size	Conductor AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Colour Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
10	8	23	4	C8-8	4,6	10,0	5,0	4,0	22,5	4,3	RED	600/50	TN70SE TN120SE	B15MD HT51 RH50 B500 B500ND HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
			5	C8-10	4,6	10,0	6,5	6,0	26,0	5,3		600/50		
			6	C8-14	4,6	11,0	7,0	6,0	26,5	6,4		600/50		
			8	C8-516	4,6	15,0	9,0	8,0	30,5	8,4		400/50		
			10	C8-38	4,6	18,0	11,0	10,0	34,5	10,5		600/50		
			12	C8-12	4,6	19,0	14,0	12,0	39,5	13,2		600/50		
16	6		4	C6-8	5,8	11,5	5,0	4,0	25,5	4,3	BLUE	600/50		
			5	C6-10	5,8	11,5	6,5	6,0	29,0	5,3		600/50		
			6	C6-14	5,8	11,5	7,0	6,0	29,5	6,4		600/50		
			8	C6-516	5,8	15,0	9,0	8,0	33,5	8,4		600/50		
			10	C6-38	5,8	18,0	11,0	10,0	37,5	10,5		600/50		
			12	C6-12	5,8	20,0	14,0	12,0	43,5	13,2		400/50		
25	4	40	4	C4-8	6,2	12,5	5,0	4,0	25,5	4,3	GREY	600/50		
			5	C4-10	6,2	12,5	6,5	6,0	29,0	5,3		600/50		
			6	C4-14	6,2	12,5	7,0	6,0	29,5	6,4		600/50		
			8	C4-516	6,2	15,0	9,0	8,0	33,5	8,4		600/50		
			10	C4-38	6,2	18,0	11,0	10,0	37,5	10,5		400/50		
			12	C4-12	6,2	20,0	14,0	12,0	42,5	13,2		400/50		
	3	50	4	C3-8	7,0	14,0	5,0	4,0	28,0	4,3	WHITE	600/50		
			5	C3-10	7,0	14,0	6,5	6,0	31,5	5,3		600/50		
			6	C3-14	7,0	14,0	7,0	6,0	32,0	6,4		600/50		
			8	C3-516	7,0	15,0	9,0	8,0	36,0	8,4		600/50		
			10	C3-38	7,0	18,0	11,0	10,0	40,0	10,5		400/50		
			12	C3-12	7,0	21,0	14,0	12,0	45,0	13,2		400/50		
35	2	60	5	C2-10	7,6	17,0	6,5	6,0	33,0	5,3	BROWN	400/50		
			6	C2-14	7,6	17,0	7,0	6,0	33,5	6,4		400/50		
			8	C2-516	7,6	17,0	9,0	8,0	37,5	8,4		400/50		
			10	C2-38	7,6	19,0	11,0	10,0	41,5	10,5		400/50		
			12	C2-12	7,6	21,0	14,0	12,0	46,5	13,2		200/50		
	1	75	6	C1-14	8,9	17,0	7,0	6,0	34,5	6,4	GREEN	400/50		
			8	C1-516	8,9	17,0	9,0	8,0	38,5	8,4		400/50		
			10	C1-38	8,9	19,0	11,0	10,0	42,5	10,5		200/50		
			12	C1-12	8,9	21,0	14,0	12,0	47,5	13,2		200/50		
50	1/0	100	6	C1/0-14	10,0	19,0	8,0	7,0	40,5	6,4	PINK	200/25		
			8	C1/0-516	10,0	19,0	9,0	8,0	42,5	8,4		200/25		
			10	C1/0-38	10,0	20,0	11,0	10,0	46,5	10,5		200/25		
			12	C1/0-12	10,0	21,0	14,0	12,0	51,5	13,2		200/25		
			14	C1/0-916	10,0	25,0	16,0	14,0	55,5	15,0		200/25		
			16	C1/0-58	10,0	26,0	18,0	16,0	59,5	17,0		200/25		
70	2/0	125	6	C2/0-14	11,3	21,0	8,0	7,0	44,0	6,4	BLACK	200/25		
			8	C2/0-516	11,3	21,0	9,0	8,0	46,0	8,4		200/25		
			10	C2/0-38	11,3	21,0	11,0	10,0	50,0	10,5		200/25		
			12	C2/0-12	11,3	22,0	14,0	12,0	55,0	13,2		200/25		
			14	C2/0-916	11,3	25,0	16,0	14,0	59,0	15,0		100/25		
			16	C2/0-58	11,3	26,0	18,0	16,0	63,0	17,0		100/25		
			20	C2/0-34	11,3	29,5	22,0	20,0	75,0	21,0		100/25		
95	3/0	150	6	C3/0-14	12,4	23,0	8,0	7,0	45,0	6,4	ORANGE	200/25	TN120SE	
			8	C3/0-516	12,4	23,0	9,0	8,0	47,0	8,4		100/25		
			10	C3/0-38	12,4	23,0	11,0	10,0	51,0	10,5		100/25		
			12	C3/0-12	12,4	24,0	14,0	12,0	56,0	13,2		100/25		
			14	C3/0-916	12,4	27,0	16,0	14,0	60,0	15,0		100/25		
			16	C3/0-58	12,4	28,0	18,0	16,0	64,0	17,0		100/25		
			20	C3/0-34	12,4	31,5	22,0	20,0	72,0	21,0		100/25		

COLOUR CODED COPPER CRIMPING LUGS

for Copper conductors



Cond. Size sqmm	Sez. Cond. AWG Size	Sez. Cond. AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Colour Code	Quantity Box/Bag
	4/0	200	6	C4/0-14	13,5	25,0	8,0	7,0	50,5	6,4	PURPLE	100/25
			8	C4/0-516	13,5	25,0	9,0	8,0	52,5	8,4		100/25
			10	C4/0-38	13,5	25,0	11,0	10,0	56,5	10,5		100/25
			12	C4/0-12	13,5	25,0	14,0	12,0	61,5	13,2		100/25
			14	C4/0-916	13,5	25,0	16,0	14,0	65,5	15,0		100/25
			16	C4/0-58	13,5	27,0	18,0	16,0	69,5	17,0		50/25
			20	C4/0-34	13,5	29,5	22,0	20,0	77,5	21,0		50/25
120	250 MCM	250	6	C250-14	15,2	28,5	8,0	7,0	52,0	6,4	YELLOW	100/25
			8	C250-516	15,2	28,5	9,0	8,0	54,0	8,4		100/25
			10	C250-38	15,2	28,5	11,0	10,0	58,0	10,5		100/25
			12	C250-12	15,2	28,5	14,0	12,0	63,0	13,2		50/25
			14	C250-916	15,2	28,5	16,0	14,0	67,0	15,0		50/25
			16	C250-58	15,2	28,5	18,0	16,0	71,0	17,0		50/25
			20	C250-34	15,2	30,0	22,0	20,0	79,0	21,0		50/25
			22	C250-78	15,2	32,0	24,0	23,0	84,0	23,0		50/25
150	300 MCM	300	8	C300-516	16,7	31,5	13,0	11,0	69,0	8,4	WHITE	40/10
			10	C300-38	16,7	31,5	13,0	11,0	69,0	10,5		40/10
			12	C300-12	16,7	31,5	16,0	14,0	75,0	13,2		40/10
			14	C300-916	16,7	31,5	18,0	16,0	79,0	15,0		40/10
			16	C300-58	16,7	31,5	19,0	17,0	81,0	17,0		40/10
			20	C300-34	16,7	31,5	22,0	20,0	87,0	21,0		40/10
			22	C300-78	16,7	31,5	24,0	23,0	92,0	23,0		40/10
185	350 MCM	350	10	C350-38	17,6	33,0	13,0	11,0	70,5	10,5	RED	40/20
			12	C350-12	17,6	33,0	16,0	14,0	76,5	13,2		40/20
			14	C350-916	17,6	33,0	18,0	16,0	80,5	15,0		40/20
			16	C350-58	17,6	33,0	19,0	17,0	82,5	17,0		40/20
			20	C350-34	17,6	33,0	22,0	20,0	88,5	21,0		40/20
			22	C350-78	17,6	37,0	24,0	23,0	93,5	23,0		30/15
	400 MCM	400	10	C400-38	19,2	35,5	13,0	11,0	76,0	10,5	BLUE	40/20
			12	C400-12	19,2	35,5	16,0	14,0	82,0	13,2		40/20
			14	C400-916	19,2	35,5	18,0	16,0	86,0	15,0		40/20
			16	C400-58	19,2	35,5	19,0	17,0	88,0	17,0		40/20
			20	C400-34	19,2	35,5	22,0	20,0	94,0	21,0		40/20
			22	C400-78	19,2	35,5	24,0	23,0	99,0	23,0		40/20
240	500 MCM		10	C500-38	21,1	39,0	13,0	11,0	82,0	10,5	BROWN	30/15
			12	C500-12	21,1	39,0	16,0	14,0	88,0	13,2		30/15
			14	C500-916	21,1	39,0	18,0	16,0	92,0	15,0		30/15
			16	C500-58	21,1	39,0	19,0	17,0	94,0	17,0		30/15
			20	C500-34	21,1	39,0	22,0	20,0	100,0	21,0		20/10
			22	C500-78	21,1	39,0	24,0	23,0	105,0	23,0		20/10
300	600 MCM		12	C600-12	23,7	44,0	20,0	14,0	99,0	13,2	GREEN	20/10
			14	C600-916	23,7	44,0	22,0	16,0	103,0	15,0		20/10
			16	C600-58	23,7	44,0	22,0	19,0	106,0	17,0		20/10
			20	C600-34	23,7	44,0	24,0	23,0	112	21,0		10/5
			22	C600-78	23,7	44,0	24,0	23,0	112,0	23,0		10/5
	750 MCM		12	C750-12	26,0	48,0	22,0	19,0	113,0	13,2	BLACK	10/5
			16	C750-58	26,0	48,0	22,0	19,0	113,0	17,0		10/5
			20	C750-34	26,0	48,0	24,0	23,0	119,0	21,0		10/5
			22	C750-78	26,0	48,0	24,0	23,0	119,0	23,0		10/5

Mechanical Tools	Hydraulic Tools
TN120SE	HT51 RH50 B500 B500ND
	HT120 and tools and heads with 130 kN crimping force
	ECW-H3D
	RHU520

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -50°C +150°C · SEMICIRCULAR

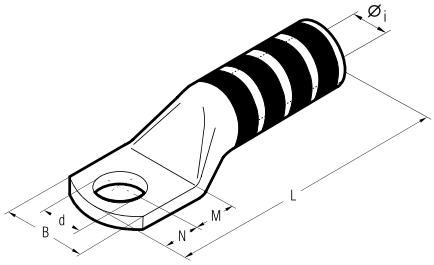
CEMBRE

CL

COLOUR CODED COPPER CRIMPING LUGS

one hole long barrel - for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -50°C +150°C · SEMICIRCULAR

CL series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, for use in heavy duty applications.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The long barrel provides better mechanical pull-out strenght.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for CEMBRE tools.
UL listed for US and Canada per UL486A up to 35 KV.
CL series lugs are an important part of CEMBRE crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 379.

CEMBRE technicians are available to provide technical advice as required.
Please consult CEMBRE for products not listed.

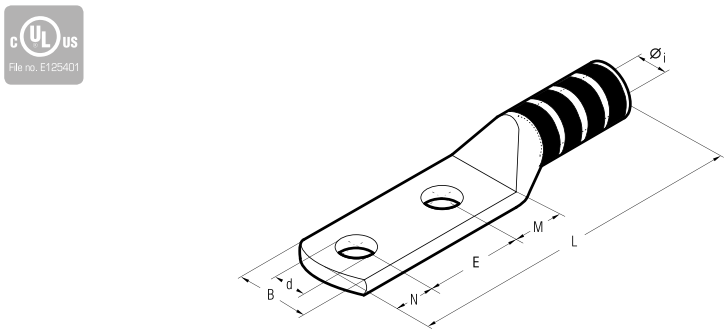
Cond. Size sqmm	Conductor AWG Size	Conductor AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Colour Code	Quantity Box/Bag	Mechanical Tools TN70SE	Mechanical Tools TN120SE	Hydraulic Tools B15MD	HT51 RH50 B500 B500ND HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
10	8	23	5	CL8-10	4,6	10,0	6,5	6,0	37,5	5,3	RED	400/50				
			6	CL8-14	4,6	11,0	7,0	6,0	38,0	6,4		400/50				
			10	CL8-38	4,6	18,0	11,0	10,0	46,0	10,5		400/50				
16	6		5	CL6-10	5,8	11,5	6,5	6,0	40,0	5,3	BLUE	400/50				
			6	CL6-14	5,8	11,5	7,0	6,0	40,5	6,4		400/50				
			12	CL6-12	5,8	20,0	14,0	12,0	53,5	13,2		400/50				
25	4	40	5	CL4-10	6,2	12,5	6,5	6,0	47,0	5,3	GREY	400/50				
			6	CL4-14	6,2	12,5	7,0	6,0	47,5	6,4		400/50				
			10	CL4-38	6,2	18,0	11,0	10,0	55,5	10,5		400/50				
			12	CL4-12	6,2	20,0	14,0	12,0	60,5	13,2		400/50				
	3	50	6	CL3-14	7,0	14,0	7,0	6,0	47,5	6,4	WHITE	200/100				
			8	CL3-516	7,0	15,0	9,0	8,0	51,5	8,4		200/100				
			10	CL3-38	7,0	18,0	11,0	10,0	55,5	10,5		200/100				
			12	CL3-12	7,0	21,0	14,0	12,0	60,5	13,2		200/100				
35	2	60	5	CL2-10	7,6	17,0	6,5	6,0	46,0	5,3	BROWN	200/50				
			6	CL2-14	7,6	17,0	7,0	6,0	46,5	6,4		200/50				
			8	CL2-516	7,6	17,0	9,0	8,0	50,5	8,4		200/50				
			12	CL2-12	7,6	21,0	14,0	12,0	59,5	13,2		200/50				
	1	75	5	CL1-10	8,9	17,0	6,5	6,0	48,0	5,3	GREEN	200/50				
			8	CL1-516	8,9	17,0	9,0	8,0	52,5	8,4		200/50				
			12	CL1-12	8,9	21,0	14,0	12,0	61,5	13,2		200/50				
50	1/0	100	5	CL1/0-10	10,0	19,0	8,0	7,0	53,5	5,3	PINK	100/50				
			8	CL1/0-516	10,0	19,0	9,0	8,0	55,5	8,4		100/50				
			10	CL1/0-38	10,0	20,0	11,0	10,0	59,5	10,5		100/50				
			12	CL1/0-12	10,0	21,0	14,0	12,0	64,5	13,2		100/50				
70	2/0	125	10	CL2/0-38	11,3	21,0	11,0	10,0	67,5	10,5	BLACK	100/50				
			12	CL2/0-12	11,3	22,0	14,0	12,0	72,5	13,2		100/50				
95	3/0	150	12	CL3/0-12	12,4	24,0	14,0	12,0	71,5	13,2	ORANGE	100/50				
	4/0	200	10	CL4/0-38	13,5	25,0	11,0	10,0	73,5	10,5	PURPLE	60/30				
			12	CL4/0-12	13,5	25,0	14,0	12,0	78,5	13,2		60/30				
120	250 MCM	250	12	CL250-12	15,2	28,5	14,0	12,0	84,0	13,2	YELLOW	50/25				
150	300 MCM	300	12	CL300-12	16,7	31,5	16,0	14,0	98,0	13,2	WHITE	30/15				
185	350 MCM	350	12	CL350-12	17,6	33,0	16,0	14,0	98,0	13,2	RED	30/15				
	400 MCM	400	12	CL400-12	19,2	35,5	16,0	14,0	107,0	13,2	BLUE	20/10				
			16	CL400-58	19,2	35,5	19,0	17,0	113,0	17,0		20/10				
240	500 MCM		12	CL500-12	21,1	39,0	16,0	14,0	108,0	13,2	BROWN	20/10				
			16	CL500-58	21,1	39,0	19,0	17,0	114,0	17,0		20/10				
300	600 MCM		12	CL600-12	23,7	44,0	20,0	14,0	128,5	13,2	GREEN	10/5				
			16	CL600-58	23,7	44,0	22,0	19,0	135,5	17,0		10/5				
	750 MCM		12	CL750-12	26,0	48,0	22,0	19,0	140,5	13,2	BLACK	10/5				
			16	CL750-58	26,0	48,0	22,0	19,0	140,5	17,0		10/5				

Also available with inspection hole.
In case of order, add suffix IH to the part number.
E.g.: CL250IH-12

COLOUR CODED COPPER CRIMPING LUGS

CL-D

double hole long barrel - for Copper conductors





Cond. Size sqmm	Conductor AWG Size	Conductor AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	E	N	L	d	Colour Code	Quantity Box/Bag
10	8	23	6	CL8-D14	4,6	11,0	7,0	16,0	6,0	53,0	6,4	RED	400/50
			6	CL8-D141	4,6	11,0	7,0	19,0	6,0	56,0	6,4		400/50
			10	CL8-D38	4,6	18,0	11,0	25,5	10,0	70,5	10,5		400/50
16	6		6	CL6-D14	5,8	11,5	7,0	16,0	6,0	54,5	6,4	BLUE	400/50
			6	CL6-D141	5,8	11,5	7,0	19,0	6,0	57,5	6,4		400/50
			10	CL6-D38	5,8	18,0	11,0	25,5	10,0	72,0	10,5		400/50
			12	CL6-DN	5,8	20,0	14,0	44,5	12,0	96,0	13,2		400/50
25	4	40	6	CL4-D14	6,2	12,5	7,0	16,0	6,0	62,0	6,4	GREY	200/50
			6	CL4-D141	6,2	12,5	7,0	19,0	6,0	65,0	6,4		200/50
			10	CL4-D38	6,2	18,0	11,0	25,5	10,0	79,5	10,5		200/50
			12	CL4-DN	6,2	20,0	14,0	44,5	12,0	103,5	13,2		200/50
	3	50	10	CL3-D38	7,0	18,0	11,0	25,5	10,0	79,5	10,5	WHITE	200/50
			12	CL3-DN	7,0	21,0	14,0	44,5	12,0	103,5	13,2		200/50
35	2	60	6	CL2-D14	7,6	17,0	7,0	16,0	6,0	61,0	6,4	BROWN	200/50
			6	CL2-D141	7,6	17,0	7,0	19,0	6,0	64,0	6,4		200/50
			10	CL2-D38	7,6	19,0	11,0	25,5	10,0	78,5	10,5		100/50
			10	CL2-DN38	7,6	19,0	11,0	44,5	10,0	97,5	10,5		100/50
			12	CL2-DN	7,6	21,0	14,0	44,5	12,0	102,5	13,2		100/50
	1	75	6	CL1-D14	8,9	17,0	7,0	16,0	6,0	63,0	6,4	GREEN	200/50
			6	CL1-D141	8,9	17,0	7,0	19,0	6,0	66,0	6,4		200/50
			10	CL1-D38	8,9	19,0	11,0	25,5	10,0	80,5	10,5		100/25
			12	CL1-DN	8,9	21,0	14,0	44,5	12,0	104,5	13,2		100/25
50	1/0	100	6	CL1/0-D14	10,0	19,0	7,9	16,0	7,0	68,0	6,4	PINK	100/25
			6	CL1/0-D141	10,0	19,0	7,9	19,0	7,0	71,0	6,4		100/25
			10	CL1/0-D38	10,0	20,0	10,9	25,5	10,0	83,5	10,5		100/25
			12	CL1/0-DN	10,0	21,0	14,0	44,5	12,0	107,5	13,2		100/25
70	2/0	125	6	CL2/0-D14	11,3	21,0	7,8	16,0	7,0	76,0	6,4	BLACK	60/30
			6	CL2/0-D141	11,3	21,0	7,8	19,0	7,0	79,0	6,4		60/30
			10	CL2/0-D38	11,3	21,0	11,0	25,5	10,0	91,5	10,5		60/30
			12	CL2/0-DN	11,3	22,0	14,0	44,5	12,0	115,5	13,2		60/30
95	3/0	150	6	CL3/0-D141	12,4	23,3	8,0	19,0	7,0	82,0	6,4	ORANGE	60/30
			10	CL3/0-D38	12,4	23,3	11,0	25,5	10,0	94,5	10,5		60/30
			12	CL3/0-DN	12,4	24,0	14,0	44,5	12,0	118,5	13,2		60/30
	4/0	200	6	CL4/0-D141	13,5	25,0	13,0	19,0	11,0	94,0	6,4	PURPLE	50/25
			10	CL4/0-D38	13,5	25,0	11,0	25,5	10,0	97,5	10,5		50/25
			10	CL4/0-DN38	13,5	25,0	11,0	44,5	10,0	116,5	10,5		50/25
			12	CL4/0-DN	13,5	25,0	14,0	44,5	12,0	121,5	13,2		50/25
120	250 MCM	250	10	CL250-D38	15,2	28,5	11,0	25,5	10,0	103,0	10,5	YELLOW	40/20
			12	CL250-DN	15,2	28,5	14,0	44,5	12,0	127,0	13,2		40/20
150	300 MCM	300	10	CL300-D38	16,7	31,5	13,0	25,5	11,0	116,0	10,5	WHITE	30/15
			12	CL300-DN	16,7	31,5	16,0	44,5	14,0	141,0	13,2		30/15
185	350 MCM	350	6	CL350-D141	17,6	33,0	13,0	19,0	11,0	109,5	6,4	RED	30/15
			10	CL350-D38	17,6	33,0	13,0	25,5	11,0	116,0	10,5		30/15
			12	CL350-DN	17,6	33,0	16,0	44,5	14,0	141,0	13,2		30/15
	400 MCM	400	6	CL400-D141	19,2	35,5	13,0	19,0	11,0	118,5	6,4	BLUE	20/10
			10	CL400-D38	19,2	35,5	13,0	25,5	11,0	125,0	10,5		20/10
			12	CL400-DN	19,2	35,5	16,0	44,5	14,0	150,0	13,2		20/10
240	500 MCM		6	CL500-D141	21,1	39,0	13,0	19,0	11,0	119,5	6,4	BROWN	20/10
			10	CL500-D38	21,1	39,0	13,0	25,5	11,0	126,0	10,5		10/5
			12	CL500-DN	21,1	39,0	16,0	44,5	14,0	151,0	13,2		10/5
300	600 MCM		10	CL600-D38	23,7	44,0	20,0	25,5	11,0	149,5	10,5	GREEN	20/5
			12	CL600-DN	23,7	44,0	20,0	44,5	14,0	171,5	13,2		20/5
	750 MCM		10	CL750-DN38	26,0	48,0	20,0	44,5	11,0	173,5	10,5	BLACK	15/5
			10	CL750-D38	26,0	48,0	20,0	25,5	11,0	154,5	10,5		15/5
			12	CL750-DN	26,0	48,0	20,0	44,5	14,0	176,5	13,2		15/5

Mechanical Tools: TN70SE, TN120SE

Hydraulic Tools: B15MD, HT51, RH50, B500, B500ND, HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520















CL series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for CEMBRE tools.
UL listed for US and Canada per UL486A up to 35 KV.
CL series lugs are an important part of CEMBRE crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 379.

CEMBRE technicians are available to provide technical advice as required.
Please consult CEMBRE for products not listed.

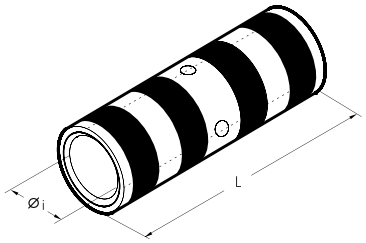
CEMBRE

BSCL

COLOUR CODED SPLICES

long barrel - for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -50°C +150°C · SEMICIRCULAR

BSCL range of connectors are designed for jointing low voltage conductors in heavy duty applications. Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimension as C and CL series lugs, BSCL connectors are annealed and electrolytically Tin plated.
They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.
UL listed for US and Canada per UL486A up to 35 KV.

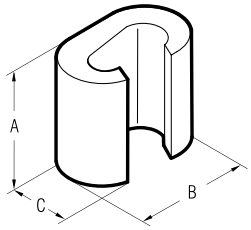
Appropriate crimping tools and dies are shown in details on page 379.

Conductor Size sqmm (AWG)	Conductor Size AWG	Type	Dimensions mm Øi	Dimensions mm L	Colour Code	Quantity Box/Bag	Mechanical Tools: HN1	HN5	TN70	TN120S	Hydraulic Tools: B15MD	B500ND	B500	RH50	HT51	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
10	8	**BSCL8**	4,6	50,5	RED	600/150												
16	6	**BSCL6**	5,8	50,5	BLUE	400/100												
25	4	**BSCL4**	6,2	60,5	GREY	200/100												
	3	**BSCL3**	7,0	60,5	WHITE	200/50												
35	2	**BSCL2**	7,6	60,5	BROWN	200/50												
	1	**BSCL1**	8,9	65,5	GREEN	200/50												
50	1/0	**BSCL1/0**	10,0	73,0	PINK	200/50												
70	2/0	**BSCL2/0**	11,3	79,0	BLACK	100/50												
95	3/0	**BSCL3/0**	12,4	79,0	ORANGE	80/40												
	4/0	**BSCL4/0**	13,5	85,5	PURPLE	50/25												
120	250 MCM	**BSCL250**	15,2	85,5	YELLOW	50/25												
150	300 MCM	**BSCL300**	16,7	104,5	WHITE	40/20												
185	350 MCM	**BSCL350**	17,6	104,5	RED	40/20												
	400 MCM	**BSCL400**	19,2	111,0	BLUE	20/10												
240	500 MCM	**BSCL500**	21,1	117,0	BROWN	20/10												
300	600 MCM	**BSCL600**	23,7	139,5	GREEN	20/10												
	750 MCM	**BSCL750**	26,0	149,0	BLACK	10/10												

SLEEVE CONNECTORS

C-C

for Copper conductors





tin plated version

Conductor Size sqmm Run	Conductor Size sqmm Tap	Type	Dimensions mm A	B	C	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
6÷2,5	6÷1,5	C6-C6ST*	9,0	9,8	6,4	1.500/100	HP4-C10	HT45-E B450ND-BV B500 B500ND RHU81-D HT81-UD RH50 HT51 ECW-H3D HT120 and tools and heads with 130 kN crimping force
10	10÷1,5	C10-C10ST*	12,0	12,6	8,4	500/100		
16	16÷1,5	C16-C16ST	17,0	19,4	12,0	500/100		
25÷16	10÷1,5	C25-C10ST	17,0	19,8	13,0	400/50		
25	25÷16	C25-C25ST	17,0	21,4	13,0	300/50		
40÷35	16÷1,5	C35-C16ST	21,0	24,6	15,4	200/25		
40÷35	40÷25	C35-C35ST	21,0	26,6	15,6	200/25		
50	25÷10							
70÷63	25÷1,5	C70-C25N-ST	21,0	26,4	17,5	200/50		
50	25÷4	C50-C25ST	25,0	32,9	21,0	100/25		
50	50÷35	C50-C50ST	26,0	33,0	21,0	100/25		
70÷50	40÷4	C70-C35ST	28,0	33,0	21,0	100/25		
70÷50	70÷35	C70-C70ST	28,0	34,0	21,0	50/25		
100÷95	40÷4	C95-C35ST	29,0	40,6	26,0	50/25		
100÷95	70÷40	C95-C70ST	29,0	41,0	26,0	50/25		
100÷95	100÷63	C95-C95ST	29,0	41,0	26,0	50/25		
125÷110	125÷25	C120-C120ST	30,0	45,0	28,0	30/15		
160÷150	125÷25	C150-C120ST	31,0	45,0	28,0	50/25		
125	125							
150	150÷63	C150-C150ST	30,0	45,0	28,0	50/25		
125	125							
185	100÷16	C185-C95ST	31,0	45,0	28,0	30/15		
185÷120	185÷120	C185-C185ST	22,6	68,0	34,0	30/15		
240÷150	120÷95	C240-C120ST	22,6	68,0	34,0	30/15		

*Given the small size, on these connectors, only the type is engraved

bright surface version

Conductor Size sqmm Run	Conductor Size sqmm Tap	Type	Dimensions mm A	B	C	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
6÷2,5	6÷1,5	C6-C6*	9,0	9,8	6,4	1.000/100	HP4-C10	HT45-E B450ND-BV B500 B500ND RHU81-D HT81-UD RH50 HT51 ECW-H3D HT120 and tools and heads with 130 kN crimping force
10	10÷1,5	C10-C10*	12,0	12,6	8,4	500/100		
16	16÷1,5	C16-C16	17,0	19,4	12,0	500/100		
25÷16	10÷1,5	C25-C10	17,0	19,8	13,0	400/50		
25	25÷16	C25-C25	17,0	21,4	13,0	300/50		
40÷35	16÷1,5	C35-C16	21,0	24,6	15,4	200/25		
40÷35	40÷25	C35-C35	21,0	26,6	15,6	200/25		
50	25÷10							
70÷63	25÷1,5	C70-C25N	21,0	26,4	17,5	200/25		
50	25÷4	C50-C25	25,0	32,9	21,0	100/25		
50	50÷35	C50-C50	26,0	33,0	21,0	100/25		
70÷50	40÷4	C70-C35	28,0	33,0	21,0	100/25		
70÷50	70÷35	C70-C70	28,0	34,0	21,0	50/25		
100÷95	40÷4	C95-C35	29,0	40,6	26,0	50/25		
100÷95	70÷40	C95-C70	29,0	41,0	26,0	50/25		
100÷95	100÷63	C95-C95	29,0	41,0	26,0	50/25		
125÷110	125÷25	C120-C120	30,0	45,0	28,0	30/15		
160÷150	125÷25	C150-C120	31,0	45,0	28,0	30/15		
125	125							
150	150÷63	C150-C150	30,0	45,0	28,0	30/15		
125	125							
185	100÷16	C185-C95	31,0	45,0	28,0	30/15		
185÷120	185÷120	C185-C185	22,6	68,0	34,0	30/15		
240÷150	120÷95	C240-C120	22,6	68,0	34,0	30/15		

*Given the small size, on these connectors, only the type is engraved

Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · OVAL

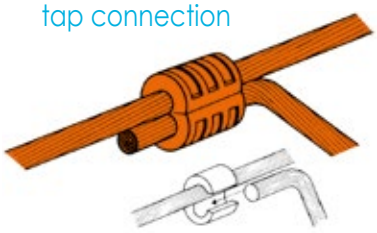
"C" connectors are manufactured from Copper profiles with a purity greater than 99.9%, and are suitable for a variety of uses either to create an earthing network or tapping off from overhead distribution lines. Each connector is marked as follows:

- CEMBRE trade mark
- Reference number
- Conductor size-Run
- Conductor size-Tap
- Number of crimps
- Die reference.

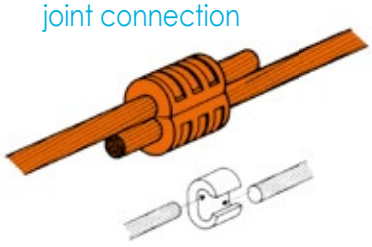
Details of the appropriate crimping tools and dies are shown on page 372.

Cu · ANNEALED · -50°C +150°C · OVAL

Example of tap connection

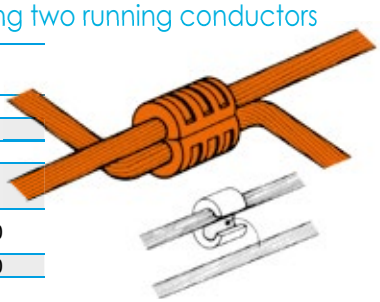


Example of joint connection



Example of joining two running conductors

Conductor Size sqmm	Type
25-25	C35-C16
35-35	C35-C35
50-50	C70-C70
63-63	C95-C70
70-70	
95-95	C150-C120
120-120	
125-125	C150-C150
120-120	C185-C95
125-125	



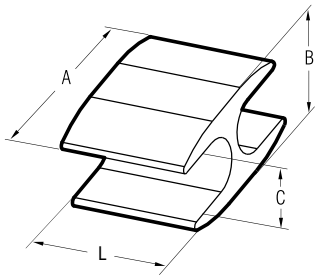
CEMBRE

H-H

H CLAMPS

for Copper conductors





tin plated version

Conductor Size mm²		Type	Dimensions mm				Quantity	Hydraulic Tools			
Run	Tap		A	B	C	L		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
70	70	**H70-H70ST**	34,0	17,0	10,8	28,0	25				
95	95	**H95-H95ST**	40,0	22,0	13,0	30,0	25				
120	120	**H120-H120ST**	43,0	24,0	15,5	25,0	15				

bright surface version

Conductor Size mm²		Type	Dimensions mm				Quantity	Hydraulic Tools			
Run	Tap		A	B	C	L		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
70	70	**H70-H70**	34,0	17,0	10,8	28,0	25				
95	95	**H95-H95**	40,0	22,0	13,0	30,0	25				
120	120	**H120-H120**	43,0	24,0	15,5	25,0	15				

H clamps are manufactured from Copper profiles with a purity greater than 99.9%, and are suitable for a earthing systems.
Each connector is marked as follows:
- CEMBRE trade mark
- Reference number

features:
- H shape
- For Copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN 13605
- Surface: bright and tin plated version
- Electrolytically tin plated to avoid oxidation; min 3µm

Details of the appropriate crimping tools and dies are shown on page 372.

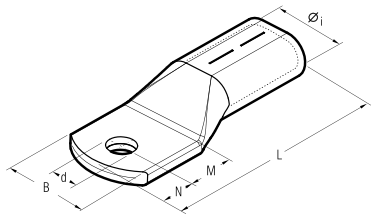
TWIN CABLE TERMINAL LUGS FOR ROUND CONDUCTORS

DK

for Copper conductors

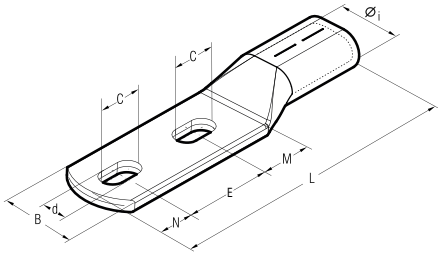


with an M12 hole



Conductor Size mm²	Type	Dimensions mm						Quantity	Hydraulic Tools			
		Øi	B	M	N	L	d		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
2 x 50	**DK50-M12**	20,6x10,75	34,0	22,0	14,5	93,5	13,0	*10*				
2 x 70	**DK70-M12**	23,0x12,0	37,0	22,0	14,5	97,5	13,0	*10*				
2 x 95	**DK95 -M12**	26,5x12,8	42,0	23,0	16,0	108,0	13,0	*10*				
2 x 120	**DK120-M12**	29,5x15,5	48,0	24,0	14,5	115,5	13,0	*5*				

with 2 elongated holes



Conductor Size mm²	Type	Dimensions mm								Quantity	Hydraulic Tools			
		Øi	B	M	N	E	L	C	d		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
2 x 70	**DK70-2M12-51AS**	23,0x12,0	37,0	25,5	21,5	51,0	159,0	24,0	13,0	*10*				
2 x 95	**DK95-2M12-51AS**	26,5x12,8	42,0	25,5	21,5	51,0	167,0	24,0	13,0	*10*				
2 x 120	**DK120-2M12-51AS**	29,5x15,5	48,0	25,5	21,5	51,0	175,0	24,0	13,0	*10*				

Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · OVAL

DK compression cable lugs are made from Copper tube with a purity greater than 99.9% and are suitable for the compression of 2 round conductors.
Cable lugs with an M12 hole or with 2 elongated holes are available (see tables). The elongated holes 2xM12 allow easy assembly with different fastening points. This enables flexible use in earthing systems.

features:

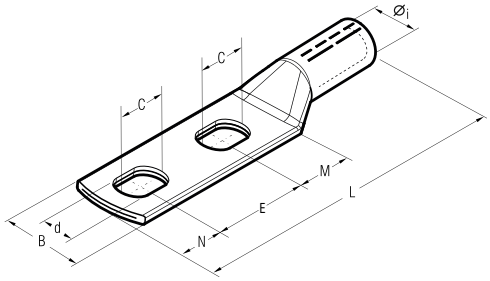
- For copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN13605
- Electrolytically tin plated to avoid oxidation; min 3µm
- Marking: CEMBRE logo; Type, die type (MRD ..- C); Press positions

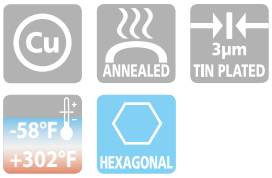
Details of the appropriate crimping tools and dies are shown on page 372.

DR-2M12-51AS COPPER TUBE CRIMPING LUGS WITH 2 HOLE FIXING

for Copper conductors







DR compression cable lugs are made from Copper tube with a purity greater than 99.9%.
They are available with 2 slotted holes (see tables).
The slotted holes 2xM12 enable easy installation with different attachment points.

features:

- For copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN13605
- Electrolytically tin plated to avoid oxidation; min 3µm
- Marking: CEMBRE logo; Type, die type (MK..); Press positions

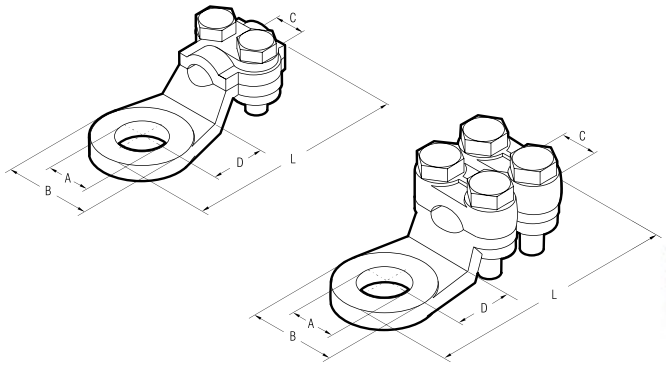
Details of the appropriate crimping tools and dies are shown on page 372.

with 2 elongated holes

Conductor Size sqmm	Type	Dimensions mm								Quantity	Mechanical Tools	Hydraulic Tools							
		Øi	B	M	N	E	L	C	d			HT45-E B450ND-BV HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
70	**DR70-2M12-51AS**	11,5	24,0	25,5	21,5	51,0	140,0	24,0	13,0	*10*	TNE-D120						
95	**DR95-2M12-51AS**	13,5	28,0	25,5	21,5	51,0	150,0	24,0	13,0	*10*							
120	**DR120-2M12-51AS**	15,5	32,0	25,5	21,5	51,0	151,0	24,0	13,0	*10*							

MECHANICAL FIXING LUGS

21..





2 bolt fixing lugs

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	Ø A Bolt	Dimensions mm B	C	D	L	Quantity
16	**2155**	M5	3	**M8**	18,0	4,5	12,5	39	*100*
16	**2171**	M5	3	**M10**	18,0	4,5	12,5	39	*100*
25	**2156**	M5	3	**M8**	19,5	6,0	13,0	43	*150/50*
25	**2172**	M5	3	**M10**	19,5	6,0	13,0	43	*100*
35	**2157**	M5	3	**M12**	23,0	7,0	15,0	49	*100/50*
35	**2173**	M5	3	**M14**	23,0	7,0	15,0	49	*50*
50	**2174**	M6	5	**M14**	25,0	8,0	17,0	56	*50*

BRASS | Steel ZINC PLATED | -50°C +150°C

Material:
Brass CB754S EN 1982 Nickel plated.
Zinc plated Steel bolts.

4 bolt fixing lugs

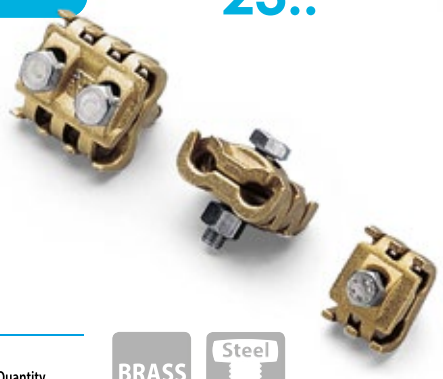
Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	Ø A Bolt	Dimensions mm B	C	D	L	Quantity
50	**2158**	M6	5	**M12**	23,5	8	16,0	57	*50/25*
75	**2160**	M6	5	**M12**	28,0	10	20,0	65	*25*
75	**2176**	M6	5	**M16**	28,0	10	20,0	65	*25*
100	**2161***	M6	5	**M12**	31,0	13	17,0	66	*25*
125	**2162***	M7	10	**M15**	33,0	14	18,0	71	*25*
150	**2163***	M7	10	**M14**	34,0	16	19,5	75	*25*
175	**2164***	M7	10	**M15**	36,0	16	21,0	78	*25*

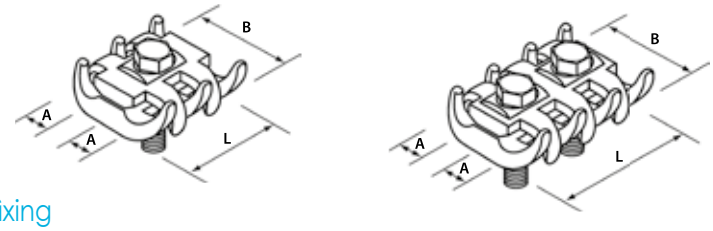


** Versions with U-bolts in bent steel*

CABLE CLAMPS

23..





Single bolt fixing

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	A for Cable mm	Dimensions mm B	L	Quantity
6÷16	**2323**	M6	8	3÷ 5	24	20,0	*150/50*
16÷50	**2326**	M8	15	5÷ 8	32	28,4	*50/25*
35÷70	**2329**	M8	15	7÷12	40	30,0	*40/10*

BRASS | Steel ZINC PLATED | Steel ZINC PLATED | -50°C +150°C

2 bolt fixing

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	A for Cable mm	Dimensions mm B	L	Quantity
6÷16	**2333**	M6	8	3÷ 5	24,5	30	*100/50*
16÷50	**2336**	M8	15	5÷ 8	32,0	40	*40/10*
35÷70	**2339**	M8	15	7÷12	40,0	44	*20/10*
50÷95	**2342**	M10	35	8÷14	48,0	48	*10*
95÷150	**2344**	M10	35	12÷16	51,0	53	*10*
150÷300	**2346***	M12	60	16÷22	66,0	66	*5*

** Stainless Steel bolts*

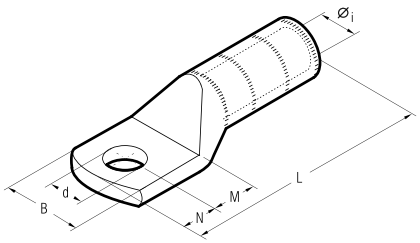
Material:
Brass CB754S EN 1982
White zinc plated Steel bolts.
White zinc plated Steel nuts.

CEMBRE

CA-M

MEDIUM VOLTAGE COPPER TERMINALS





Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · CIRCULAR · HEXAGONAL

Series CA-M and 2A-M terminals are designed for medium voltage applications up to 35 kV.
They are manufactured from Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The extended barrel enhances both electrical and mechanical performance. The absence of an inspection hole prevents moisture entry into the crimped joint and makes these terminals suitable for outdoor applications.
Details of the appropriate crimping tools and dies are shown on page 373.

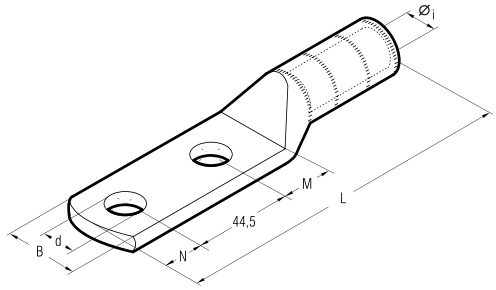
Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools						
			Øi	B	M	N	L	d		HT45-E B450ND-BV	HT51 RH50 B500 B500ND B550	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25 R/BR/BS*	8	CA25-M8	6,8	14,0	9,0	8,0	65,0	8,4	300/50						
	10	CA25-M10	6,8	18,0	13,0	11,0	72,0	10,5	200/50						
	12	CA25-M12	6,8	21,0	16,0	14,0	78,0	13,2	150/50						
30 RC/S ÷ 40 S	12	CA40S-M12	8,2	21,0	16,0	14,0	79,0	13,2	100/50						
	16	CA40S-M16	8,2	26,0	19,0	17,0	85,0	17,0	100/50						
35 BR/BS*	10	CA35-M10	8,3	21,0	13,0	11,0	73,0	10,5	150/50						
	12	CA35-M12	8,3	21,0	16,0	14,0	79,0	13,2	150/50						
	16	CA35-M16	8,3	26,0	19,0	17,0	85,0	17,0	150/50						
50 RC	12	CA50R-M12	8,7	20,5	16,0	14,0	79,0	13,2	100/50						
50 S	12	CA50S-M12	9,5	21,0	16,0	14,0	79,0	13,2	100/50						
	16	CA50S-M16	9,5	26,0	19,0	17,0	85,0	17,0	100/50						
50 BR/BS*	10	CA50-M10	9,5	21,0	13,0	11,0	73,0	10,5	150/50						
	12	CA50-M12	9,5	21,0	16,0	14,0	79,0	13,2	150/50						
	14	CA50-M14	9,5	25,0	18,0	16,0	83,0	15,0	100/50						
	16	CA50-M16	9,5	26,0	19,0	17,0	85,0	17,0	100/50						
63 S ÷ 70 S	12	CA70S-M12	11,0	28,0	16,0	14,0	81,2	13,2	30/15						
	16	CA70S-M16	11,0	30,0	19,0	17,0	87,2	17,0	50/25						
70 BR/BS*	10	CA70S-M10	11,0	26,0	13,0	11,0	75,2	10,5	50/25						
	12	CA70S-M12	11,0	28,0	16,0	14,0	81,2	13,2	30/15						
	14	CA70S-M14	11,0	28,0	18,0	16,0	85,2	15,0	50/25						
	16	CA70S-M16	11,0	30,0	19,0	17,0	87,2	17,0	50/25						
80 S ÷ 95 RC	12	CA95R-M12	12,0	28,0	16,0	14,0	91,0	13,2	30/15						
	14	CA95R-M14	12,0	29,0	18,0	16,0	95,0	15,0	50/25						
95 S ÷ 100 S	12	CA95S-M12	13,5	28,0	16,0	14,0	91,0	13,2	30/15						
	14	CA95S-M14	13,5	29,0	18,0	16,0	94,5	15,0	50/25						
	16	CA95S-M16	13,5	30,0	20,0	17,0	97,0	17,0	50/25						
95 BR/BS*	10	CA95-M10	13,5	28,0	13,0	11,0	85,0	10,5	50/25						
	12	CA95-M12	13,5	28,0	16,0	14,0	91,0	13,2	50/25						
	16	CA95-M16	13,5	30,0	20,0	17,0	97,0	17,0	50/25						
120 RC/S ÷ 150 RC	12	CA150R-M12	15,0	31,0	16,0	14,0	97,0	13,2	30/15						
	14	CA150R-M14	15,0	31,0	18,0	16,0	101,0	15,0	30/15						
120 BR/BS*	12	CA120-M12	15,0	31,0	16,0	14,0	97,0	13,2	30/15						
	16	CA120-M16	15,0	31,0	19,0	17,0	103,0	17,0	30/15						
150 S ÷ 160 RC	12	CA150S-M12	16,5	32,0	16,0	14,0	97,0	13,2	30/15						
	14	CA150S-M14	16,5	32,0	18,0	16,0	101,0	15,0	30/15						
150 BR/BS*	12	CA150-M12	16,5	32,0	16,0	14,0	97,0	13,2	30/15						
	16	CA150-M16	16,5	32,0	19,0	17,0	103,0	17,0	30/15						
160 S ÷ 200 RC	14	CA200R-M14	17,0	32,5	18,0	16,0	101,0	15,0	30/15						
185 BR/BS*	12	CA185-M12	18,0	33,5	16,0	14,0	97,0	13,2	30/15						
	16	CA185-M16	18,0	33,5	19,0	17,0	103,0	17,0	30/15						
200 S ÷ 240 RC	14	CA240R-M14	19,2	43,0	18,0	16,0	107,0	15,0	15/5						
240 S ÷ 315 RC	14	CA315R-M14	21,5	43,0	18,0	16,0	105,0	15,0	15/5						
240 BR/BS*	12	CA240-M12	20,5	42,0	16,0	14,0	103,0	13,2	15/5						
	16	CA240-M16	20,5	42,0	19,0	17,0	109,0	17,0	15/5						
	20	CA240-M20	20,5	42,0	22,0	20,0	115,0	21,0	15/5						
300 BR/BS*	12	CA300-M12	23,0	43,5	16,0	14,0	109,5	13,2	15/5						
	16	CA300-M16	23,0	43,5	19,0	17,0	115,5	17,0	15/5						
	20	CA300-M20	23,0	43,5	22,0	20,0	121,5	21,0	15/5						
315 S	14	CA315S-M14	23,7	44,0	18,0	16,0	105,0	15,0	15/5						

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*

MEDIUM VOLTAGE COPPER TERMINALS

CA-2M

two hole fixing

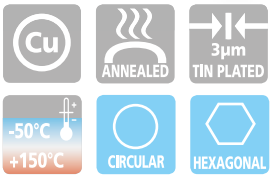




Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag
25 R	8	**CA25-2M8**	6,8	14,0	10,0	11,0	113,5	8,4	200/50
	12	**CA25-2M12**	6,8	21,0	16,0	14,0	122,5	13,2	100/50
25 BR/BS*	8	**CA25-2M8**	6,8	14,0	10,0	11,0	113,5	8,4	200/50
	10	**CA25-2M10**	6,8	18,0	13,0	11,0	116,5	10,5	150/50
	12	**CA25-2M12**	6,8	21,0	16,0	14,0	122,5	13,2	150/50
30 RC/S ÷ 40 S	12	**CA40S-2M12**	8,2	21,5	16,0	14,0	123,5	13,2	100/50
35 BR/BS*	12	**CA35-2M12**	8,3	21,5	16,0	14,0	123,5	13,2	100
50 RC	12	**CA50R-2M12**	8,7	20,5	16,0	14,0	123,5	13,2	100/50
50 S	12	**CA50S-2M12**	9,5	21,0	16,0	14,0	123,5	13,2	100/50
50 BR/BS*	12	**CA50-2M12**	9,5	21,0	16,0	14,0	123,5	13,2	90/3
63 S ÷ 70 S	12	**CA70S-2M12**	11,0	27,0	16,0	14,0	125,5	13,2	50/25
70 BR/BS*	12	**CA70S-2M12**	11,0	27,0	16,0	14,0	125,5	13,2	50/25
80 S ÷ 95 RC	14	**CA95R-2M14**	12,0	28,0	18,0	16,0	139,5	15,0	30/15
95 S ÷ 100 S	14	**CA95S-2M14**	13,5	29,0	18,0	16,0	139,5	15,0	30/15
95 BR/BS*	12	**CA95-2M12**	13,5	28,0	16,0	14,0	135,5	13,2	30/15
120 RC/S ÷ 150 RC	14	**CA150R-2M14**	15,0	31,0	18,0	16,0	145,5	15,0	30/15
120 BR/BS*	12	**CA120-2M12**	15,0	31,0	16,0	14,0	141,5	13,2	30/15
150 S ÷ 160 RC	14	**CA150S-2M14**	16,5	32,0	18,0	16,0	145,5	15,0	30/15
150 BR/BS*	12	**CA150-2M12**	16,5	32,0	16,0	14,0	141,5	13,2	30/15
160 S ÷ 200 RC	14	**CA200R-2M14**	17,0	32,5	18,0	16,0	145,0	15,0	30/15
185 BR/BS*	12	**CA185-2M12**	18,0	32,5	16,0	14,0	141,5	13,2	30/15
200 S ÷ 240 RC	14	**CA240R-2M14**	19,2	43,0	18,0	16,0	151,5	15,0	15/5
240 S ÷ 315 RC	14	**CA315R-2M14**	21,5	43,0	18,0	16,0	149,5	15,0	20/5
240 BR/BS*	12	**CA240-2M12**	20,5	43,0	16,0	14,0	147,5	13,2	15/5
300 BR/BS*	12	**CA300-2M12**	23,0	43,0	16,0	14,0	145,5	13,2	15/5
315 S	14	**CA315S-2M14**	23,7	44,0	18,0	16,0	149,5	15,0	20/5

Hydraulic Tools: HT45-E, B450ND-BV, B500ND, B550, HT51, RH50, B500, HT81-UD, RHU81-D, HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*

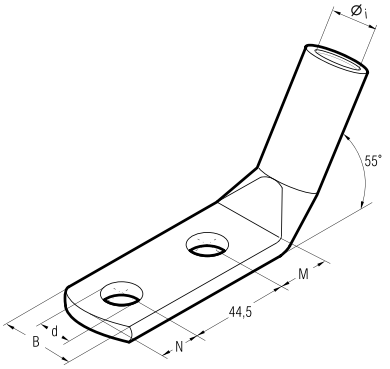


CA-2M and 2A-2M Copper Tube Terminal Lugs are designed for medium voltage applications up to 35 kV. Manufactured from Copper tube with a purity greater than 99.9%, annealed and Tin plated. The extended barrel enhances electrical and mechanical performance.
The absence of an inspection hole prevents moisture entry into the crimped joint. Featuring an extended palm with two fixing holes at 44.5 mm centres.
Details of the appropriate crimping tools and dies are shown on page 373.

MEDIUM VOLTAGE COPPER TERMINALS

2A-2M/55°

palm bent at 55° - two hole fixing





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	d	Quantity Box/Bag
400 R	14	**2A80-2M14/55**	27,0	51,0	22	16	15	10/5
600 R ÷ 630 R	14	**2A120-2M14/55**	33,4	61,5	22	16	15	15/3

Hydraulic Tools: HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

R = Round conductors



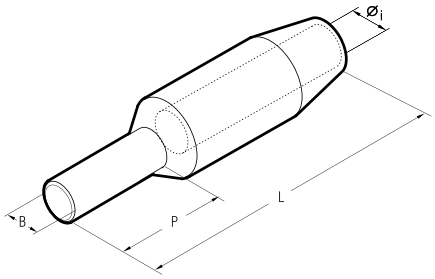
The 2A-2M/55° Copper Tube Terminal Lugs have the same characteristics as the CA-2M and 2A-2M ranges, with the additional feature of the palm bent at 55°.
Details of the appropriate crimping tools and dies are shown on page 373.

CEMBRE

MT-C

MEDIUM VOLTAGE STALK CONNECTORS







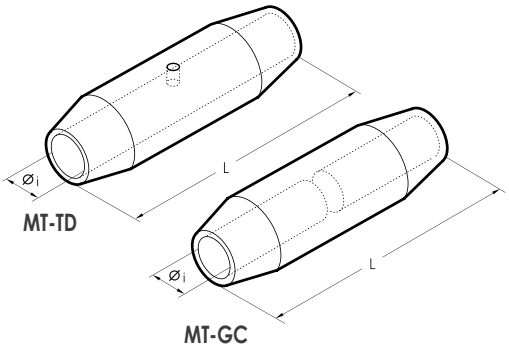
MT-C series connectors are designed for medium voltage applications up to 35 kV.
They are manufactured from Copper with a purity greater than 99.9%, annealed and Tin plated.
The extended barrel enhances both electrical and mechanical performance.
The stalk or pin makes these connectors ideal for terminating conductors into contact blocks.
Details of the appropriate crimping tools and dies are shown on page 373.

Conductor Size (sqmm) & Format	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools						
		Øi	B	P	L		HT45-E B450ND-BV	HT51 RH50 B500 B500ND B550	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25 R	MT25-C8	6,8	8,0	35,0	80,0	90/3	●					
30 RC/S ÷ 40 S	MT40S-C8	8,2	8,0	35,0	80,0	90/3	●					
	MT40S-C10	8,2	10,0	35,0	80,0	90/3	●					
	MT40S-C14-80	8,2	14,0	80,0	123,0	30/3	●					
35 BR/BS*	MT35-C8	8,2	8,0	35,0	80,0	90/3	●					
	MT35-C10	8,2	10,0	35,0	80,0	90/3	●					
	MT35-C14-80	8,2	14,0	80,0	123,0	30/3	●					
50 RC	MT50R-C8	8,8	8,0	35,0	80,0	90/3	●					
	MT50R-C10	8,8	10,0	35,0	80,0	90/3	●					
50 S	MT50S-C8	9,5	8,0	35,0	80,0	90/3	●					
	MT50S-C10	9,5	10,0	35,0	80,0	90/3	●					
	MT50S-C14-80	9,5	14,0	80,0	123,0	30/3	●					
50 BR/BS*	MT50-C8	9,5	8,0	35,0	80,0	90/3	●					
	MT50-C10	9,2	10,0	35,0	80,0	90/3	●					
	MT50-C14-80	9,5	14,0	80,0	123,0	90/3	●					
63 S ÷ 70 S	MT70S-C10	11,2	10,0	35,0	90,0	30/3		●				
70 BR/BS*	MT70-C10	11,2	10,0	35,0	90,0	30/3		●				
80 S ÷ 95 RC	MT95R-C10	12,0	10,0	45,0	110,0	60/3		●				
	MT95R-C12	12,0	12,0	45,0	110,0	60/3		●				
95 S ÷ 100 S	MT95S-C10	13,5	10,0	45,0	110,0	60/3		●				
	MT95S-C12	13,5	12,0	45,0	110,0	60/3		●				
	MT95S-C14-80	13,5	14,0	80,0	145,0	60/3		●				
95 BR/BS*	MT95-C10	13,5	10,0	45,0	110,0	60/3		●				
	MT95-C12	13,5	12,0	45,0	110,0	60/3		●				
	MT95-C14-80	13,5	14,0	80,0	145,0	60/3		●				
120 RC/S ÷ 150 RC	MT150R-C12	15,0	12,0	45,0	110,0	60/3		●				
	MT150R-C16	15,0	16,0	45,0	110,0	30/3		●				
120 BR/BS*	MT120-C12	15,0	12,0	45,0	110,0	60/3		●				
	MT120-C16	15,0	16,0	45,0	110,0	60/3		●				
150 S ÷ 160 RC	MT150S-C12	16,5	12,0	45,0	110,0	60/3		●				
	MT150S-C14-80	16,5	14,0	80,0	145,0	45/3		●				
	MT150S-C16	16,5	16,0	45,0	110,0	30/3		●				
150 BR/BS*	MT150-C10	16,5	10,0	45,0	110,0	60/3		●				
	MT150-C12	16,5	12,0	45,0	110,0	60/3		●				
	MT150-C14-80	16,5	14,0	80,0	145,0	45/3		●				
	MT150-C16	16,5	16,0	45,0	110,0	60/3		●				
160 S ÷ 200 RC	MT200R-C10	17,0	10,0	45,0	110,0	30/3		●				
	MT200R-C16	17,0	16,0	45,0	110,0	30/3		●				
185 BR/BS*	MT185-C10	18,0	10,0	45,0	110,0	30/3		●				
	MT185-C16	18,0	16,0	45,0	110,0	30/3		●				
200 S ÷ 240 RC	MT240R-C12	19,5	12,0	50,0	115,0	30/3				●		
	MT240R-C16	19,5	16,0	50,0	115,0	30/3				●		
240 S ÷ 315 RC	MT315R-C16	21,5	16,0	50,0	115,0	30/3				●		
240 BR/BS*	MT240-C12	20,5	12,0	45,0	110,0	30/3				●		
	MT240-C16	20,5	16,0	50,0	115,0	30/3				●		
300 BR/BS*	MT300-C16	23,0	16,0	50,0	115,0	30/3				●		
315 S	MT315S-C16	24,0	16,0	60,0	130,0	30/3				●		

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*

MEDIUM VOLTAGE COPPER THROUGH CONNECTORS

MT-TD
MT-GC





Conductor Size (sqmm) & Format	Type	Type	Dimensions mm		Quantity Box/Bag	Hydraulic Tools								
			Øi	L		HT45-E	B450ND-BV	B550	B500ND	B500E	RH50	HT51	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25 R/BR/BS*	MT25-TD	MT25-GC	6,8	60,0	90/3												
30 RC/S ÷ 40 S	MT40S-TD	MT40S-GC	8,2	60,0	90/3												
30 BR/BS*	MT35-TD	MT35-GC	8,2	60,0	90/3												
50 RC	MT50R-TD	MT50R-GC	8,7	60,0	90/3												
50 S	MT50S-TD	MT50S-GC	9,5	60,0	90/3												
50 BR/BS*	MT50-TD	MT50-GC	9,5	60,0	90/3												
63 S ÷ 70 S	MT70S-TD	MT70S-GC	11,0	70,0	30/3												
70 BR/BS*	MT70-TD	MT70-GC	11,0	70,0	30/3												
80 S ÷ 95 RC	MT95R-TD	MT95R-GC	12,0	80,0	30/3												
95 S ÷ 100 S	MT95S-TD	MT95S-GC	13,5	80,0	30/3												
95 BR/BS*	MT95-TD	MT95-GC	13,5	80,0	30/3												
120 RC/S ÷ 150 RC	MT150R-TD	MT150R-GC	15,0	80,0	30/3												
120 BR/BS*	MT120-TD	MT120-GC	15,0	80,0	30/3												
150 S ÷ 160 RC	MT150S-TD	MT150S-GC	16,5	80,0	30/3												
150 BR/BS*	MT150-TD	MT150-GC	16,5	80,0	30/3												
160 S ÷ 200 RC	MT200R-TD	MT200R-GC	17,0	100,0	30/3												
185 BR/BS*	MT185-TD	MT185-GC	18,0	100,0	30/3												
200 S ÷ 240 RC	MT240R-TD	MT240R-GC	19,2	100,0	21/3												
240 S ÷ 315 RC	MT315R-TD	MT315R-GC	21,5	100,0	21/3												
240 BR/BS*	MT240-TD	MT240-GC	20,5	100,0	30/3												
300 BR/BS*	MT300-TD	MT300-GC	23,0	100,0	30/3												
315 S	MT315S-TD	MT315S-GC	23,7	100,0	21/3												
400 BR/BS*	MT400-TD	MT400-GC	27,0	120,0	15/3												
500 R	MT500-TD		30,3	118,0	12/3												
600 R ÷ 630 R	MT630-TD		33,4	130,0	9/3												

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*



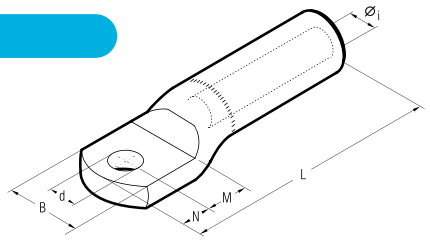
MT-TD and MT-GC series connectors are designed to join conductors in medium voltage applications up to 35 kV.
They are manufactured from Copper with a purity greater than 99.9%, annealed and Tin plated.
MT-GC series feature a solid stop which forms a barrier between the two conductors being joined, this prevents the migration of oils or greases, which may be present, in one cable contaminating the other cable.
MT-TD connectors are unblocked and are suitable for joining cables of the same type.
Details of the appropriate crimping tools and dies are shown on page 373.

CEMBRE

AA-M

ALUMINIUM TERMINALS





AA-M series terminals are made from Aluminium of a purity equal to or greater than 99,5%.
They are designed to accept a variety of conductor forms especially low stranded compacted conductors.
Non circular conductors may require pre-rounding prior to introduction to the terminal.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium.
Details of the appropriate crimping tools and dies are shown on page 373-376.

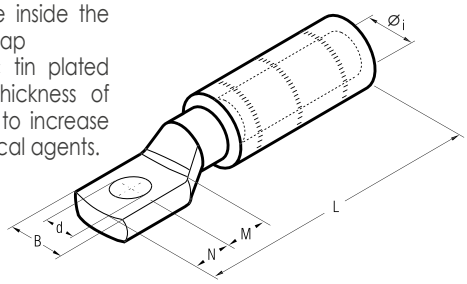
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools			
			Øi	B	M	N	L	d					
16	8	**AA16-M8**	5,5	21	13	11	77,0	8,4	60/3	HT131-UC RHU131-C B1300-UC			
25	8	**AA25-M8**	6,5	21	13	11	77,0	8,4	60/3				
35	8	**AA35-M8**	8,0	23	13	11	77,5	8,4	60/3				
	10	**AA35-M10**	8,0	23	13	11	77,5	10,5	60/3				
50	12	**AA50-M12**	9,0	26	16	14	91,0	13,2	60/3				
	14	**AA50-M14**	9,0	26	18	16	95,0	15,0	60/3				
70	12	**AA70-M12**	11,0	27	16	14	91,0	13,2	45/3				
	14	**AA70-M14**	11,0	27	18	16	95,0	15,0	45/3				
95	12	**AA95-M12**	12,5	27	16	14	91,0	13,2	30/3				
	14	**AA95-M14**	12,5	27	18	16	95,0	15,0	45/3				
120	12	**AA120-M12**	13,7	35	16	14	115,0	13,2	21/3				
	14	**AA120-M14**	13,7	35	18	16	119,0	15,0	30/3				
150	12	**AA150-M12**	15,5	34	16	14	115,0	13,2	45/3				
	14	**AA150-M14**	15,5	34	18	16	119,0	15,0	30/3				
185	12	**AA185-M12**	17,0	42	20	14	122,0	13,2	15/3				
	14	**AA185-M14**	17,0	42	22	16	126,0	15,0	18/3				
240	12	**AA240-M12**	19,5	44	20	14	122,0	13,2	15/3				
	14	**AA240-M14**	19,5	44	22	16	126,0	15,0	15/3				
300	12	**AA300-34M12**	22,5	47	22	14	130,0	13,2	15/3		HT120 HT131-C RHC 131	ECW-H3D	
	14	**AA300-34M14**	22,5	47	22	16	132,0	15,0	15/3				
	16	**AA300-34M16**	22,5	47	22	17	133,0	17,0	15/3				
	16	**AA300-M16**	23,3	54	22	19	177,0	17,0	12/3				RHU 230-630
400	16	**AA400-M16**	26,0	56	19	17	172,0	17,0	15/3				
500	16	**AA500-40M16**	29,1	57	22	19	177,0	17,0	12/3				
630	16	**AA630-M16**	32,5	70	22	19	177,0	17,0	9/3				

AAC150-M10

for bimetallic connections in medium/low voltage cabins



Tin plated aluminum cable lug with single hole for M10 screw, with limited connection, for aluminum cables section 150 mm².
Characterized by:
- spacer marking for correct compression
- **CEI EN 61238-1** self-certification according to ENEL indications
- presence of grease inside the barrel and closing cap
- Surface electrolytic tin plated with a minimum thickness of 15µm, which helps to increase resistance to chemical agents.

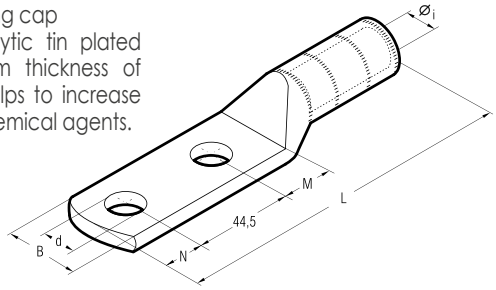


Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools
			Øi	B	M	N	L	d		
150	10	**AAC150-M10**	15,5	19	16	15	99	10,5	28/4	HT51 RH50 B500 B500ND

AA150S-2M12/29ST



Tin plated aluminum cable lug with double hole for M12 screws, center distance 44.5 mm, for aluminum cables section. 150 mm².
Characterized by:
- spacer marking for correct compression
- **CEI EN 61238-1** self-certification according to ENEL indications
- presence of grease inside the barrel and closing cap
- Surface electrolytic tin plated with a minimum thickness of 15µm, which helps to increase resistance to chemical agents.

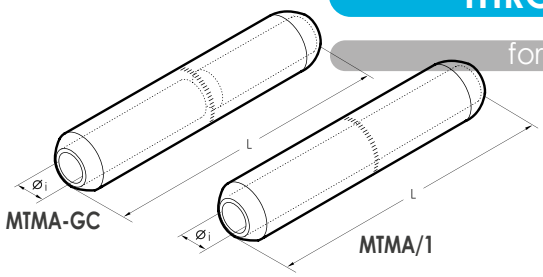


Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools
			Øi	B	M	N	L	d		
150	12	**AA150S-2M12/29ST**	15,5	29	16	14	144,5	13,2	24/4	HT51 RH50 B500 B500ND

THROUGH CONNECTORS

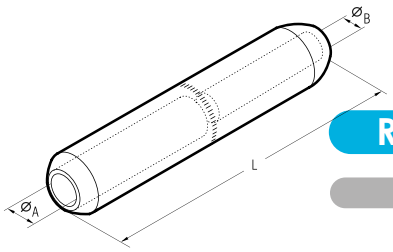
for Aluminium conductors

MTMA-GC
MTMA/1





Conductor Size sqmm	Type	Type	Dimensions mm Øi	Dimensions mm L	Quantity Box/Bag	Hydraulic Tools			
10	MTMA10-GC		4,3	90,5	60/3	B1300-UC			
16	MTMA16-GC	MTMA16/1	5,5	90,5	60/3	RHU131-C			
25	MTMA25-GC	MTMA25/1	6,5	90,5	60/3	HT131-UC			
35	MTMA35-GC	MTMA35/1	8,0	90,5	60/3				
	MTMA35-20-GC		8,0	106,5	30/3				
50	MTMA50-GC	MTMA50/1	9,0	106,5	30/3				
70	MTMA70-GC	MTMA70/1	11,0	106,5	30/3				
95	MTMA95-GC		12,5	110,0	30/3				
		MTMA95/1	12,5	106,5	30/3				
120	MTMA120-GC	MTMA120/1	13,7	133,0	21/3				
150	MTMA150-GC		15,5	135,0	21/3				
		MTMA150/1	15,5	133,5	21/3				
185	MTMA185-GC	MTMA185/1	17,0	143,5	15/3				
240	MTMA240-GC	MTMA240/1	19,5	143,5	15/3				
300	MTMAD300-GC		22,5	144,5	12/3		HT120 HT131-C RHC131	ECW-H3D	
		MTMAD300/1	22,5	135,0	15/3				
	MTMA300-GC		23,3	218,0	15/3				
400		MTMA400/1	26,0	218,0	15/3				RHU230-630
500	MTMA500-GC		29,1	218,5	12/3				
		MTMA500-40/1	29,1	218,0	15/3				
630		MTMA630/1	32,5	218,5	12/3				



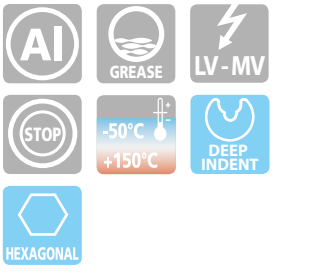


REDUCER THROUGH CONNECTORS

for Aluminium or Copper conductors

MTMA-GC

Conductor Size sqmm Side A Al	Side B Al/Cu	Type	Dimensions mm ØA	Dimensions mm ØB	Dimensions mm L	Quantity Box/Bag	Hydraulic Tools			
16	10	MTMA16-10-GC	5,5	4,3	90,5	60/3	B1300-UC			
25	10	MTMA25-10-GC	6,5	4,3	90,5	60/3	RHU131-C			
	16	MTMA25-16-GC	6,5	5,5	90,5	60/3	HT131-UC			
50	25	MTMA50-25-GC	9,0	6,5	106,5	30/3				
	35	MTMA50-35-GC	9,0	8,0	106,5	30/3				
70	35	MTMA70-35-GC	11,0	8,0	106,5	30/3				
	50	MTMA70-50-GC	11,0	9,0	106,5	30/3				
95	50	MTMA95-50-GC	12,5	9,0	109,4	30/3				
	70	MTMA95-70-GC	12,5	11,0	106,5	30/3				
120	70	MTMA120-70-GC	13,7	11,0	133,0	21/3				
	95	MTMA120-95-GC	13,7	12,5	133,0	30/3				
150	70	MTMA150-70-GC	15,5	11,0	133,0	24/3				
	95	MTMA150-95-GC	15,5	12,5	134,4	21/3				
	120	MTMA150-120-GC	15,5	13,7	133,0	21/3				
185	120	MTMA185-120-GC	17,0	13,7	143,5	15/3				
	150	MTMA185-150-GC	17,0	15,5	143,5	15/3				
240	150	MTMA240-150-GC	19,5	15,5	143,5	15/3				
	185	MTMA240-185-GC	19,5	17,0	143,5	15/3				
300	95	MTMAD300-95-GC	22,5	12,5	144,5	15/3		HT120 HT131-C RHC131	ECW-H3D	
	150	MTMAD300-150-GC	22,5	15,5	144,5	15/3				
	185	MTMAD300-185-GC	22,5	17,0	144,5	15/3				
	240	MTMAD300-240-GC	22,5	19,5	144,5	12/3				
400	240	MTMA400-240-GC	26,0	19,5	218,0	15/3				RHU230-630
	300	MTMA400-300-GC	26,0	23,3	218,0	15/3				
500	300	MTMA500-300-GC	29,1	23,3	218,5	12/3				
	400	MTMA500-400-GC	29,1	26,0	218,5	12/3				



MTMA-GC series through connectors are made from Aluminium of a purity equal to or greater than 99,5%.
They feature a solid stop which creates a barrier between the two sides of conductors to be joined.
Barrels are capped and filled with grease so as to avoid oxidation of the connector. MTMA/1 series through connectors are unblocked and are suitable for joining cables of the same type.
Details of the appropriate crimping tools and dies are shown on pages 373-376.

MTMA-GC series reducer through connectors are manufactured to the same specification as MTMA-GC series through connectors.
Details of the appropriate crimping tools and dies are shown on pages 373-376.

CEMBRE

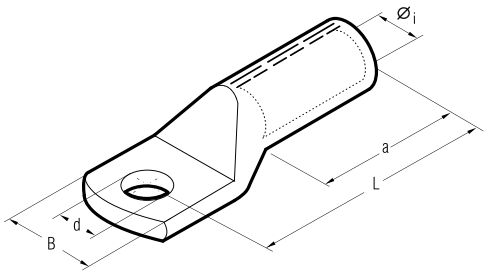
AAD-M

ALUMINIUM TERMINALS

for non-tension connections on Aluminium conductors according to DIN EN 50182



Tube dimensions according to DIN 46329



AI · GREASE · -50°C +150°C · HEXAGONAL

Terminals type AAD..-M.. are made from Aluminium tube of a purity equal or greater than 99,5%.
They are suitable for Aluminium conductors according to DIN EN 50182, up to 10 kV.
All terminals are filled with a special grease that avoids Aluminium oxidation after crimping thereby assuring an optimal compression.
Barrel is closed with a cap for storage and transport.
Bright surface finish
The following data is stamped on the terminal:

- CEMBRE logo
- Terminal description
- Section
- Fixing bolt size
- Number and position of crimps
- CEMBRE Die reference according to DIN 48083

Details of the appropriate crimping tools and dies are shown on page 381.

Conductor Size sqmm rm sm	Conductor Size sqmm re se	Ø Stud mm	Ref.	Code	Dimensions mm Øi	B	L	d	a	Quantity Bag	Hydraulic Tools: HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU 450	RHU 520
16	25	8	AAD16-M8	12	5,8	18	52	8,5	32	50	●	●	●	●	●	●	●	●
		10	AAD16-M10	12	5,8	18	52	10,5	32	50	●	●	●	●	●	●	●	●
25	35	8	AAD25-M8	12	6,8	19	60	8,5	37	50	●	●	●	●	●	●	●	●
		10	AAD25-M10	12	6,8	19	60	10,5	37	50	●	●	●	●	●	●	●	●
35	50	8	AAD35-M8	14	8,0	21	67	8,5	42	35	●	●	●	●	●	●	●	●
		10	AAD35-M10	14	8,0	21	67	10,5	42	35	●	●	●	●	●	●	●	●
		12	AAD35-M12	14	8,0	21	67	13,0	42	35	●	●	●	●	●	●	●	●
50	70	8	AAD50-M8	16	9,8	25	72	8,5	42	30	●	●	●	●	●	●	●	●
		10	AAD50-M10	16	9,8	25	72	10,5	42	30	●	●	●	●	●	●	●	●
		12	AAD50-M12	16	9,8	25	72	13,0	42	30	●	●	●	●	●	●	●	●
70	95	10	AAD70-M10	18	11,2	28	83	10,5	52	15	●	●	●	●	●	●	●	●
		12	AAD70-M12	18	11,2	28	83	13,0	52	15	●	●	●	●	●	●	●	●
		16	AAD70-M16	18	11,2	28	83	17,0	52	15	●	●	●	●	●	●	●	●
95	120	10	AAD95-M10	22	13,2	32	90	10,5	55	10	●	●	●	●	●	●	●	●
		12	AAD95-M12	22	13,2	32	90	13,0	55	10	●	●	●	●	●	●	●	●
		16	AAD95-M16	22	13,2	34	90	17,0	55	10	●	●	●	●	●	●	●	●
120	150	10	AAD120-M10	22	14,7	32	91	10,5	55	10	●	●	●	●	●	●	●	●
		12	AAD120-M12	22	14,7	32	91	13,0	55	10	●	●	●	●	●	●	●	●
		16	AAD120-M16	22	14,7	34	91	17,0	55	10	●	●	●	●	●	●	●	●
150	185	10	AAD150-M10	25	16,5	35	104	10,5	60	8		●	●	●	●	●	●	●
		12	AAD150-M12	25	16,5	35	104	13,0	60	8		●	●	●	●	●	●	●
		16	AAD150-M16	25	16,5	35	104	17,0	60	8		●	●	●	●	●	●	●
		20	AAD150-M20	25	16,5	41	104	21,0	60	8		●	●	●	●	●	●	●
185	240	12	AAD185-M12	28	18,3	40	105	13,0	60	15		●	●	●	●	●	●	●
		16	AAD185-M16	28	18,3	40	105	17,0	60	15		●	●	●	●	●	●	●
		20	AAD185-M20	28	18,3	40	105	21,0	60	15		●	●	●	●	●	●	●
240	300	12	AAD240-M12	32	21,0	45	119	13,0	70	12		●	●		●	●	●	●
		16	AAD240-M16	32	21,0	45	119	17,0	70	12		●	●		●	●	●	●
		20	AAD240-M20	32	21,0	45	119	21,0	70	12		●	●		●	●	●	●
300		12	AAD300-M12	34	23,3	49	125	13,0	70	9			●		●	●	●	●
		16	AAD300-M16	34	23,3	49	125	17,0	70	9			●		●	●	●	●
		20	AAD300-M20	34	23,3	49	125	21,0	70	9			●		●	●	●	●
400		12	AAD400-M12	38	26,0	58	140	13,0	100	3						●	●	●
		16	AAD400-M16	38	26,0	58	140	17,0	100	3						●	●	●
		20	AAD400-M20	38	26,0	58	140	21,0	100	3						●	●	●
500		12	AAD500-M12	44	29,0	63	160	13,0	100	3						●	●	●
		16	AAD500-M16	44	29,0	63	160	17,0	100	3						●	●	●
		20	AAD500-M20	44	29,0	63	160	21,0	100	3						●	●	●

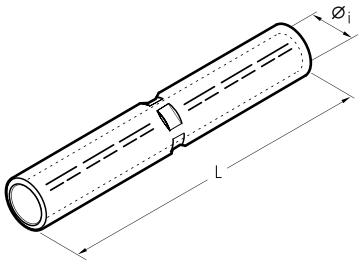
rm = round stranded
sm = sector stranded
re = round solid
se = sector solid

ALUMINIUM THROUGH CONNECTORS

DSVA

for non-tension connections on Aluminium conductors according to DIN EN 50182

Manufactured according to DIN 46267 Part 2





Conductor Size sqmm rm sm	Conductor Size sqmm re se	Code	Ref.	Dimensions mm Øi	Dimensions mm L	Quantity Bag	Hydraulic Tools: B450ND-BV / HT45-E	B500ND / B500 / RH50 / HT51	B600CND / B600C / HT60C / RH60C	RHU81-D / HT81-UD	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU 450	RHU 520
16	25	12	**DSVA16**	5.8	55	*30*								
25	35	12	**DSVA25**	6.8	70	*25*								
35	50	14	**DSVA35**	8.0	85	*25*								
50	70	16	**DSVA50**	9.8	85	*20*								
70	95	18	**DSVA70**	11.2	105	*20*								
95	120	22	**DSVA95**	13.2	105	*15*								
120	150	22	**DSVA120**	14.7	105	*15*								
150	185	25	**DSVA150**	16.5	125	*10*								
185	240	28	**DSVA185**	18.3	125	*10*								
240	300	32	**DSVA240**	21.0	145	*5*								
300		34	**DSVA300**	23.3	145	*10*								
400		38	**DSVA400**	26.0	210	*3*								
		42	**DSVA401**	28.0	210	*3*								
500		44	**DSVA500**	29.0	210	*3*								
		46	**DSVA501**	31.0	210	*3*								
600		52	**DSVA625**	35.0	330	*4*								
800		58	**DSVA800**	40.0	350	*3*								
1000		60	**DSVA1000**	44.0	350	*3*								

rm = round stranded
sm = sector stranded
re = round solid
se = sector solid









Crimping through connectors type DSVA.. are manufactured according to DIN 46267 part 2.
The aluminum tube has a purity equal to or greater than 99.5%.
The crimping through connectors are suitable for aluminum conductors according to DIN EN 50182, up to 10 kV.
All connectors are filled with a special grease that avoids aluminum oxidation after crimp and thus guarantees an optimal compression.
Barrels are capped for storage and transport.
On the connector following information is shown:

- CEMBRE logo
- Connector description
- Section
- Number and position of crimps
- Compression code according to DIN 48083

Details of the appropriate crimping tools and dies are shown on page 381.

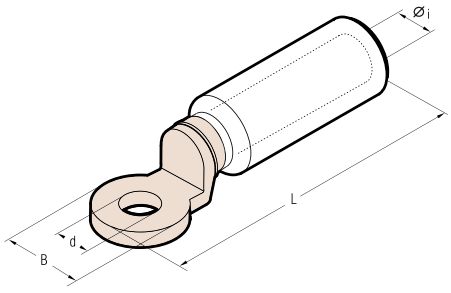
CEMBRE

CAA-M

BIMETALLIC CONNECTORS

Copper palm fixing - Aluminium barrels





Cu Al · GREASE · -50°C +150°C · DEEP INDENT · HEXAGONAL

The barrels of series CAA-M connectors are made from Aluminium of a purity equal to or greater than 99,5%.
The barrel is friction welded to the palm thus achieving the best possible transition between the Copper palm and Aluminium barrel.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium.
Details of the appropriate crimping tools and dies are shown on pages 373, 376.

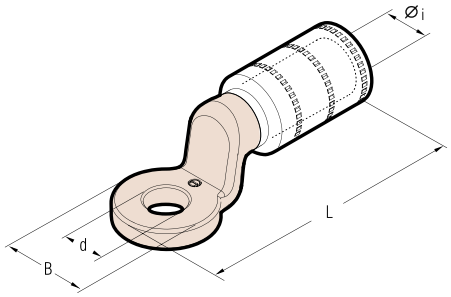
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools				
			Øi	B	L	d		HT131-UC	RHU131-C B1300-UC	HT120 HT131-C RHC131	ECW-H3D	RHU230-630
10	12	**CAA10-M12**	4,3	24,0	87,0	13,0	*60/3*	●	●			
16	12	**CAA16-M12**	5,5	24,0	87,0	13,0	*60/3*	●	●			
25	12	**CAA25-M12**	6,5	24,0	87,0	13,0	*60/3*	●	●			
35	12	**CAA35-M12**	8,0	24,0	87,0	13,0	*45/3*	●	●			
	12	**CAA35-20-M12**	8,0	24,0	87,0	13,0	*60/3*	●	●			
50	12	**CAA50-M12**	9,0	24,0	87,0	13,0	*30/3*	●	●			
70	12	**CAA70-M12**	11,0	24,0	87,0	13,0	*60/3*	●	●			
95	10	**CAA95-M10**	12,5	24,0	87,0	10,5	*30/3*	●	●			
	12	**CAA95-M12**	12,5	24,0	87,0	13,0	*30/3*	●	●			
120	12	**CAA120-M12**	13,7	31,0	111,0	13,0	*24/3*	●	●			
150	12	**CAA150-M12**	15,5	31,0	111,0	13,0	*24/3*	●	●			
185	12	**CAA185-M12**	17,0	35,0	116,0	13,0	*18/3*	●	●			
240	12	**CAA240-M12**	19,5	35,0	116,0	13,0	*18/3*	●	●			
300	12	**CAA300-34-M12**	22,5	35,0	120,0	13,0	*15/3*	●	●	●	●	
	14	**CAA300-34-M14**	22,5	35,0	120,0	15,0	*15/3*	●	●	●	●	
	16	**CAA300-34-M16**	22,5	35,0	120,0	17,0	*15/3*	●	●	●	●	
	16	**CAA300-M16**	23,3	35,0	152,5	16,5	*9/3*				●	●
400	12	**CAA400-M12**	26,0	35,0	152,5	13,0	*9/3*				●	●
	16	**CAA400-M16**	26,0	35,0	152,5	16,5	*9/3*				●	●
500	16	**CAA500-M16-TNBD**	29,1	35,0	152,5	16,5	*9/3*				●	●
630	8	**CAA630-4M8**	32,5	60,0	200,0	4 x 9,0*	*9/3*				●	●

** 4 holes with 30 mm between axes*

BIMETALLIC CONNECTORS WITH A SHORT BARREL

CBMC-N

Copper palm fixing - Aluminium barrels







Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools						
			Øi	B	L	d		HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT81-UD RHU81-D	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU230-630
35	8	**CBMC35-M8N**	8,0	17	61	8,5	*120/3*						
50	8	**CBMC50-M8N**	9,0	17	61	8,5	*120/3*						
70	10	**CBMC70-M10N**	10,8	21	65	10,5	*60/3*						
95	10	**CBMC95-M10N**	12,3	21	65	10,5	*60/3*						
120	10	**CBMC120-M10N**	13,3	25	71	10,5	*60/3*						
	12	**CBMC120-M12N**	13,3	25	71	12,5	*60/3*						
150	10	**CBMC150-M10N**	15,3	25	74	10,5	*60/3*						
	12	**CBMC150-M12N**	15,3	29	78	12,5	*30/3*						
185	10	**CBMC185-M10N**	16,8	25	74	10,5	*30/3*						
	12	**CBMC185-M12N**	16,8	29	78	12,5	*30/3*						
240	10	**CBMC240-M10N**	19,3	25	78	10,5	*30/3*						
	12	**CBMC240-M12N**	19,3	29	82	12,5	*30/3*						
300	10	**CBMC300-M10N**	22,0	28	85	10,5	*30/3*						
	12	**CBMC300-M12N**	22,0	28	85	12,5	*30/3*						
	14	**CBMC300-M14N**	22,0	34	91	14,5	*30/3*						

The small size of the CBMC-N series cable lugs facilitates connections in cubicles, circuit breakers and motor terminal boxes. These terminals are designed exclusively for industrial networks and can be compressed with a hexagonal die. **These terminals are tested according to NFC 63-061 class B and IEC 61238-1-3 standards.** Details of the appropriate crimping tools and dies are shown on page 377.

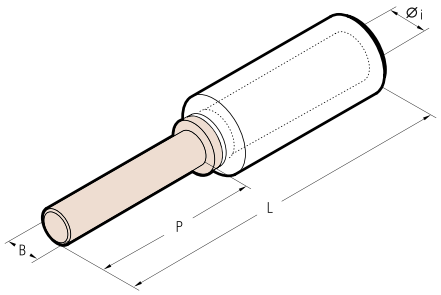
CEMBRE

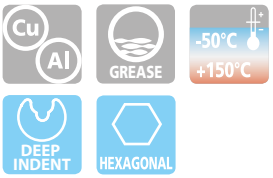
MTA-C

BIMETALLIC CONNECTORS

Copper pin - Aluminium barrels







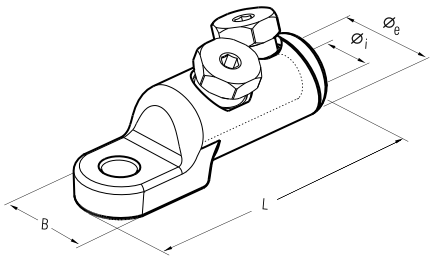
The barrels of series MTA-C connectors are made from Aluminium of a purity equal to or greater than 99,5%.
The barrel is friction welded to the pin thus achieving the best possible transition between the Copper pin and Aluminium barrel.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium.
Details of the appropriate crimping tools and dies are shown on pages 373, 376.

Conductor Size sqmm	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools
		Øi	B	P	L		
16	**MTA16-C**	5,5	8	30	82	*90/3*	**HT131-UC RHU131-C B1300-UC**
25	**MTA25-C**	6,5	8	30	82	*90/3*	
35	**MTA35-C**	8,0	8	30	82	*90/3*	
50	**MTA50-C**	9,0	12	45	97	*60/3*	
70	**MTA70-C**	11,0	12	45	97	*60/3*	
95	**MTA95-C**	12,5	12	45	97	*30/3*	
120	**MTA120-C**	13,7	14	55	125	*30/3*	
150	**MTA150-C**	15,5	14	55	125	*30/3*	
185	**MTA185-C**	17,0	14	55	125	*24/3*	
240	**MTA240-C**	19,5	14	55	125	*24/3*	

MECHANICAL LUGS

MLA-NC

For Low and Medium voltage Al/Cu conductors







Conductor Size sqmm	Type	Ø Stud mm	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
50-240	**MLA50-240-12NC**	12	33	20,5	33	106,5*	2	3	1/10

** without centring devices*



CEMBRE range-taking mechanical connectors are intended for use with Copper and Aluminium conductors, for low and medium voltage (up to 52kV) installations, in indoor, outdoor and underground applications.
Mechanical connector bodies (pic.1) are made from Aluminium EN-AW 2011 T6 with cross sectional area and barrel length designed to optimise electrical connectivity. Internal surfaces are protected against oxidation by grease with a very high dropping point, while the Tin plating on external surfaces has a minimum thickness of 12 µm for improved surface protection.
Shear bolts (pic.2) are made from the same material and designed to ensure a reliable electrical connection simply by tightening the bolts with a standard socket until shearing occurs inside the threaded hole without external protrusion.
To minimise voltage stresses, connectors are provided with centring devices (pic.3) to improve the alignment of the different conductor sizes.

Key features:

- Wide range of conductor cross sections
- Suitable for Copper and Aluminium conductors
- Tested according to IEC 61238
- Torque controlled to guarantee a good electrical contact
- Reduces inventory levels
- Easy installation - only requires a standard socket
- Reduced installation time

Pic. 1





Conductor Size sqmm	Centring device	
	Color	Type
50 - 70 - 95	Red	
120 - 150	Blue	
185	Yellow	
240	**Not required**	

Pic. 3

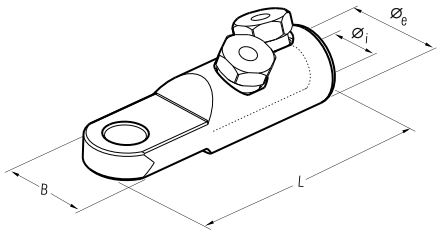
CEMBRE

ML-C

MECHANICAL LUGS WITH SYMMETRICAL PALM

For Medium voltage Al/Cu conductors





Conductor Size sqmm	Type	Ø Stud mm	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
95-240	**ML95-240-16C**	16	35	20,5	35	124*	2	3	1/10
150-240	**ML150-240-16C**	16	35	20,5	35	124*	2	2	1/10

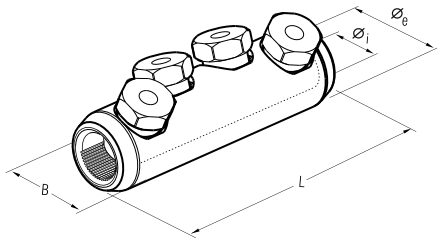
** without centring devices*

MBS-NC

MECHANICAL SPLICES

For Low and Medium voltage Al/Cu conductors





Conductor Size sqmm	Type	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
		Øe	Øi	B	L			
50-240	**MBS50-240NC**	35	20,5	35	124*	4	3	1/20

** without centring devices*

TERMINAL BLOCKS, FLEXIBLE BUSBAR, BRAIDS AND DISTRIBUTION BLOCKS



symbol description

terminal blocks



Polycarbonate body



Polyamide PA6.6 body



Polypropylene body



Steatite body



Polyvinylchloride insulating sheath



Electrolytically Tin plated Copper interconnections



Electrolytically Tin plated to avoid oxidation



Nominal voltage V



Degree of Protection IP20



Self-extinguishing class V0 UL94



Zinc plated Steel screws



Chrome plated Steel screws



Brass clamp



Operating temperature range



Italian Institute of the Quality Mark
type approval



Lloyd's Register Marine
type approval



Italian Naval Register
type approval



USR-CNR type approval
valid for USA and CANADA



CE marking



UKCA marking

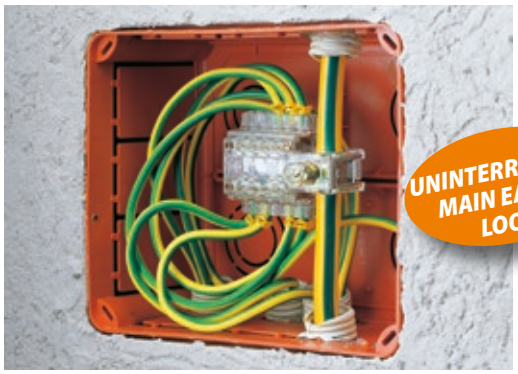
terminal blocks

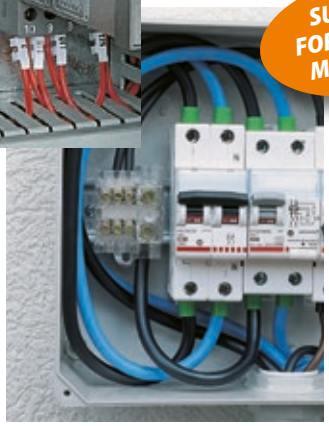
type **ZETApiù®**



Z6-10D terminal blocks
used in a control panel.

Z35T-11 uninterrupted,
main earth loop, terminal block.
Used for equipotential bonding







Z16-8D and Z6-6D
mounted on DIN rails.
Used in control panels

type **ZETAmini®**

ZETAmini terminal blocks
used for domestic/commercial
applications.





type **ZETA*block*®**

A typical application of the
Z50-DP12-160 and Z35-DP14B-125
installed in a distribution panel





CEMBRE

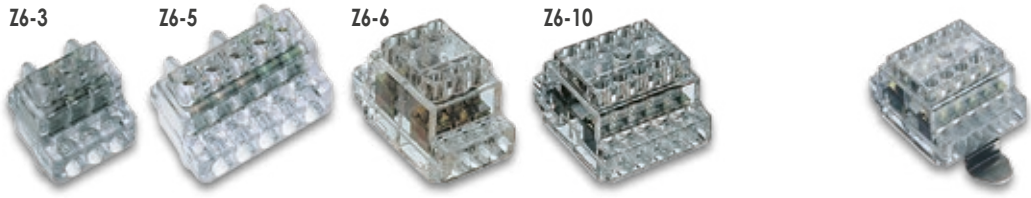
Z6

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 6 sqmm

type ZETApiù®

Z6-3 Z6-5 Z6-6 Z6-10



The "Z...D" version has been designed for mounting on DIN rails

PC | Cu-ETP ELECTROLYTIC | EASY ENTRY | 3µm TIN PLATED | 450V | IP20 | V0 UL94 | MAX +85°C

Connecting Capacity sqmm	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
(3 way) 1÷6	Z6-3	3	450	85	IP20	V-0 (UL 94)	23x23xh27,5	15,0	30
	Z6-3D						23x40xh36,5	18,5	10
(5 way) 1÷6	Z6-5	5	450	85	IP20	V-0 (UL 94)	35x23xh27,5	23,0	20
	Z6-5D						35x40xh36,5	26,5	10
(6 way) 1÷6	Z6-6	6	450	85	IP20	V-0 (UL 94)	23x43xh28,5	26,0	15
	Z6-6D						23x53xh33	31,0	10
(10 way) 1÷6	Z6-10	10	450	85	IP20	V-0 (UL 94)	35x43xh28,5	41,0	10
	Z6-10D						35x53xh33	46,0	15

D= Version with clamp for DIN rail

3, 5, 6 and 10 way, single pole terminal blocks for conductor section 1 to 6 sqmm.
Self contained and robust, they are quick and easy to install for both industrial and domestic use.
The indirect clamping of the "ZETApiù" terminal blocks guarantees a low and stable contact resistance.
Indirect clamping eliminates damage to the conductor strands.
The easy-entry receptacles also grant a fast and reliable insertion of the cable.

Technical features:
- **Self-extinguishing Polycarbonate body**
- **Tempered Steel clamps**
- **Electrolytically Tin plated Copper interconnections**

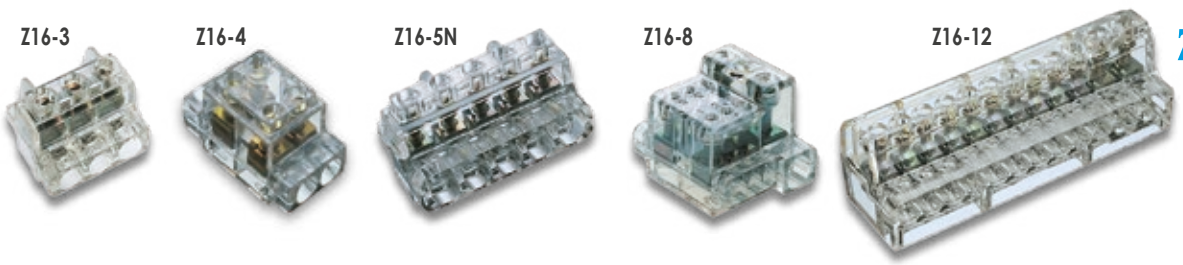
Z16

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 16 sqmm

type ZETApiù®

Z16-3 Z16-4 Z16-5N Z16-8 Z16-12



PC | Cu-ETP ELECTROLYTIC | EASY ENTRY | 3µm TIN PLATED | 450V | IP20 | V0 UL94 | MAX +85°C

Connecting Capacity sqmm	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
16	Z16-3	3	450	85	IP20	V-0 (UL 94)	38x31,3xh38	52,0	20
	Z16-3D						38x50xh44	55,5	15
16	Z16-4	4	450	85	IP20	V-0 (UL 94)	27x54xh37	50,0	15
	Z16-4D						27x58xh43	54,0	10
16	Z16-5N	5	450	85	IP20	V-0 (UL 94)	61x31,5xh38	64,5	10
	Z16-5ND						61x50xh44	68,0	4
(2 way) 16 + (6 way) 6	Z16-8	8 (2÷6)	450	85	IP20	V-0 (UL 94)	35,5x50xh36,5	50,0	15
	Z16-8D						35,5x57xh42	56,0	10
(2 way) 16 + (10 way) 6	Z16-12	12 (2÷10)	450	85	IP20	V-0 (UL 94)	104,5x32,5xh36,5	115,0	8
	Z16-12D						104,5x50xh42	125,0	5

D= Version with clamp for DIN rail

3, 4, 5, 8 and 12 way, single pole terminal blocks.
Ideal for use as an equipotential bonding connector for both industrial and domestic use.

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 35 sqmm

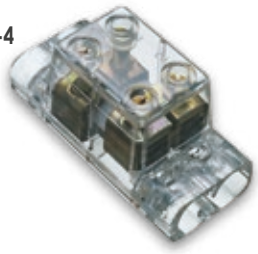
Z35

type ZETApiù®

Z35-3



Z35-4



Z35-6



Connecting Capacity sqmm	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
35	**Z35-3**	3	450	85	IP20	V-0 (UL 94)	53x48,5xh42	110	*10*
	Z35-3D						53x50xh48	114	*5*
35	**Z35-4**	4	450	85	IP20	V-0 (UL 94)	37x85xh42	129	*5*
	Z35-4D						37x85xh48	133	*5*
(2 way) 35 + (4 way) 16	**Z35-6**	6 (2÷4)	450	85	IP20	V-0 (UL 94)	83x41xh43	130	*8*
	Z35-6D						83x49xh52	140	*5*

D= Version with clamp for DIN rail

PC · Cu-ETP ELECTROLYTIC · EASY ENTRY · 3µm TIN PLATED · 450V · IP20 · V0 UL94 · MAX +85°C

3, 4 and 6 way, single pole terminal blocks. Ideal for use as an equipotential bonding connector for both industrial and domestic use.

SINGLE POLE TERMINAL BLOCKS

indirect clamping - for earthing applications ⏚

Z35
Z50

type ZETApiù®

Z50-10D



Z35T-11
Z35T-11D





Z35-26D

Connecting Capacity sqmm	Type	No. of Ways	Maximum Operating Temperature °C	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
(1 way) 35 + (10 way) 6	**Z35T-11**	11 (1+10)	85	V-0 (UL 94)	58x43xh42	70	*10*
	Z35T-11D				58x53xh47	75	*10*
(2 way) 35 + (24 way) 10	**Z35-26D**	26 (2+24)	85	V-0 (UL 94)	151x52xh48	379	*4*
(2 way) 50 + (8 way) 25	**Z50-10D**	10 (2+8)	85	V-0 (UL 94)	77,5x55xh49	320	*6*

D= Version with clamp for DIN rail

⏚ · PC · Cu-ETP ELECTROLYTIC · 3µm TIN PLATED · V0 UL94 · MAX +85°C

10, 11 and 26 way, single pole terminal blocks.
Ideal for use as an equipotential bonding connector for both industrial and domestic use.

CONNECTING CAPACITY OF TERMINAL BLOCKS

indirect clamping

type
ZETApiù®

Type	Nominal Section	No. of Ways x Nominal Section	Connecting Capacity of Each Way* No. of Conductors x Section	Markings
Z6-3 Z6-3D	6□	3 x 6□	1 x 6□ R/F 1 x 4□ R/F 1÷2 x 2,5□ R/F 1÷2 x 1,5□ R/F 1÷4 x 1□ R/F	6 mm² 450 V T 85°C
Z6-5 Z6-5D	6□	5 x 6□		
Z6-6 Z6-6D	6□	6 x 6□		6 mm² 450 V T 85°C
Z6-10 Z6-10D	6□	10 x 6□		
Z16-3 Z16-3D	16□	3 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷4 x 2,5□ R/F 1÷8 x 1,5□ R/F	16 mm² 450 V T 85°C
Z16-4 Z16-4D	16□	4 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F 1÷3 x 4□ F 1÷4 x 2,5□ F 1÷8 x 1,5□ F	16 mm² 450 V T 85°C
Z16-5N Z16-5ND	16□	5 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷4 x 2,5□ R/F 1÷8 x 1,5□ R/F	16 mm² 450 V T 85°C
Z16-8 Z16-8D	16□ / 6□	2 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷4 x 2,5□ R/F 1÷8 x 1,5□ R/F	16~6 mm² 450 V T 85°C
		6 x 6□	1 x 6□ R/F 1 x 4□ R/F 1÷2 x 2,5□ R/F 1÷2 x 1,5□ R/F 1÷4 x 1□ R/F	
Z16-12	16□ / 6□	2 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F 1÷3 x 4□ F 1÷4 x 2,5□ F	16~6 mm² 450 V T 85°C
Z16-12D		10 x 6□	1 x 6□ F 1 x 4□ F 1÷2 x 2,5□ F 1÷2 x 1,5□ F 1÷4 x 1□ F	

** A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than the nominal section.*
R = Rigid conductor F = Flexible conductor

CONNECTING CAPACITY OF TERMINAL BLOCKS

indirect clamping

type
ZETApiù®

Type	Nominal Section	No. of Ways x Nominal Section	Connecting Capacity of Each Way* No. of Conductors x Section	Markings
Z35-3 Z35-3D	35□	3 x 35□	1 x 35□ R/F 1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷5 x 6□ R/F	35 mm² 450 V T 85°C
Z35-4 Z35-4D	35□	4 x 35□	1 x 35□ F 1 x 25□ F 1÷2 x 16□ F 1÷3 x 10□ F 1÷6 x 6□ F	35 mm² 450 V T 85°C
Z35-6 Z35-6D	35□ / 16□	2 x 35□	1 x 35□ R/F 1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷6 x 6□ F	35~16 mm² 450 V T 85°C
		4 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷5 x 2,5□ F	
Z35T-11 Z35T-11D	35□ / 6□	1 x 35□	1 x 35□ R/F 1 x 25□ R/F 1 x 16□ R/F 1 x 10□ R/F	35~6 mm² T 85°C
		10 x 6□	1 x 6□ R/F 1 x 4□ R/F 1÷2 x 2,5□ R/F 1÷2 x 1,5□ R/F 1÷4 x 1□ R/F	
Z35-26D	35□ / 10□	2 x 35□	1 x 35□ R/F 1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷6 x 6□ R/F	35~10 mm² T 85°C
		24 x 10□	1 x 10□ R/F 1 x 6□ R/F 1÷2 x 4□ R/F 1÷4 x 2,5□ R/F	
Z50-10D	50□ / 25□	2 x 50□	1 x 50□ R/F 1 x 35□ R/F 1÷2 x 25□ R/F 1÷4 x 16□ R/F	** 50~25 mm² T 85°C
		8 x 25□	1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷6 x 6□ R/F 1÷9 x 4□ R/F	

** A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than the nominal section.*
R = Rigid conductor F = Flexible conductor

MARKINGS

Conforms to:

Directive 2014/35/UE

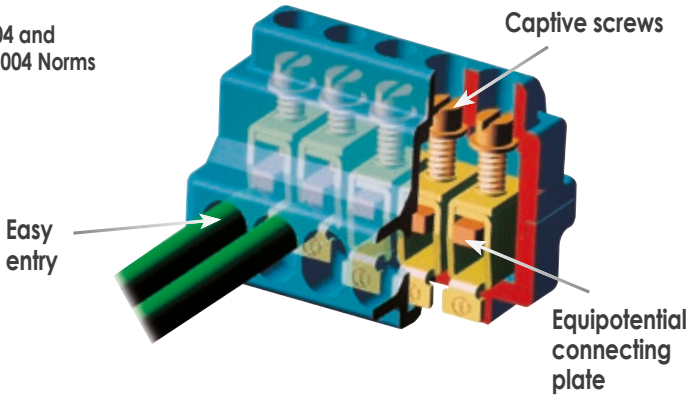
Italian Institute of the Quality Mark type approval

EN 60998-1: 2004 and EN 60998-2-1: 2004 Norms

Lloyd's Register Marine type approval

Italian Naval Register type approval

**
EN60947-1: 2007+A1: 2011: 2014 and EN 60947-7-1: 2002 Norms



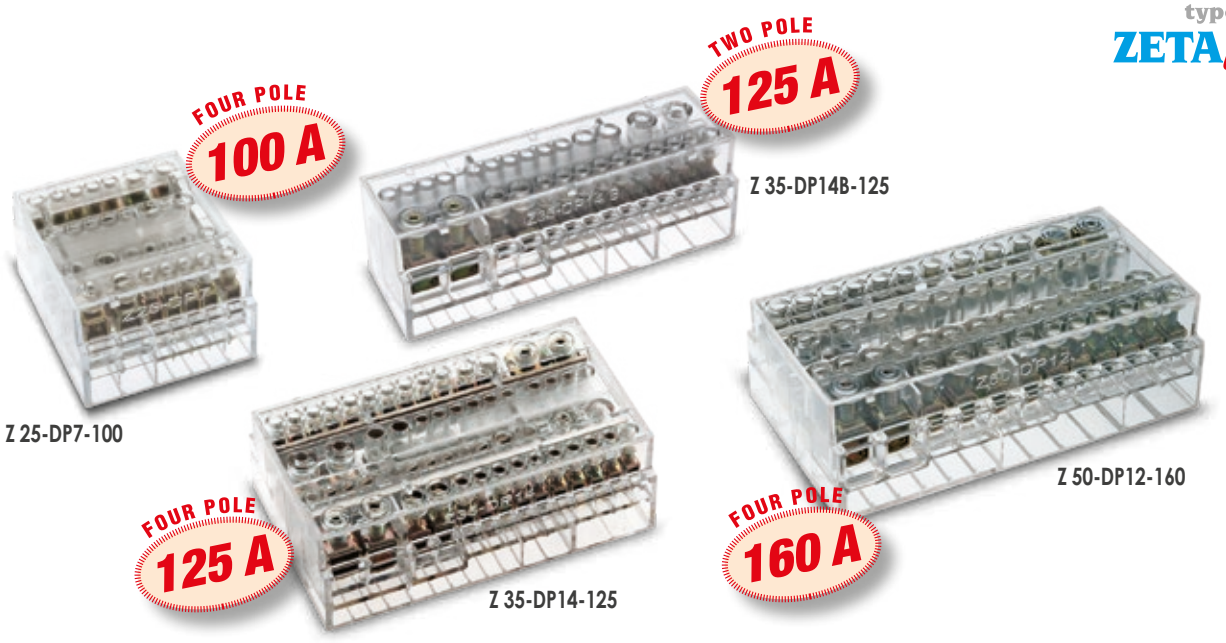
CEMBRE

Z-DP

POWER DISTRIBUTION BLOCK

indirect clamping

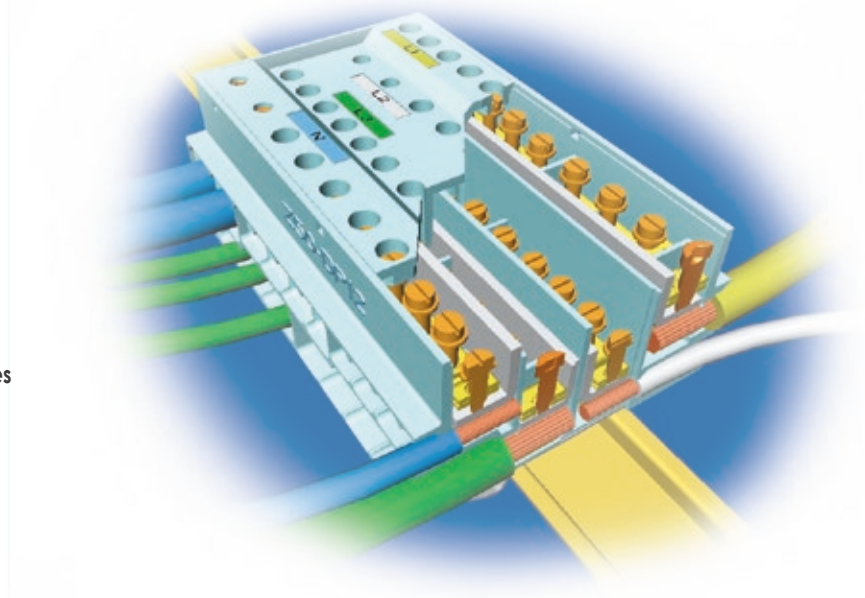
type ZETA*block*®



PC | Cu-ETP ELECTROLYTIC | 3µm TIN PLATED | Steel ZINC PLATED | V0 UL94 | 800V

Type	No. of poles	No. of Ways per pole	Nominal CSA for each pole sqmm	Maximum operating voltage (Ui)	Impulse voltage (Uimp)	Maximum operating current (In)	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Qty
Z25-DP7-100	4	7 (2+5)	(2 way) 25 + (5 way) 6	800 V	8 kV	100 A	3 kA	18 kA	V-0 (UL 94)	70x84xh45	290	*2*
Z35-DP14-125	4	14 (2+2+10)	(2 way) 35 + (2 way) 16 + (10 way) 6	800 V	8 kV	125 A	4,2 kA	18 kA	V-0 (UL 94)	137x83xh46	700	*1*
Z35-DP14B-125	2	14 (2+2+10)	(2 way) 35 + (2 way) 16 + (10 way) 6	800 V	8 kV	125 A	4,2 kA	18 kA	V-0 (UL 94)	137x44xh46	360	*2*
Z50-DP12-160	4	12 (2+4+6)	(2 way) 50 + (4 way) 25 + (6 way) 16	800 V	8 kV	160 A	6 kA	18 kA	V-0 (UL 94)	150x84xh48	780	*1*

100, 125 and 160A, 2–4 pole distribution blocks with 7, 14 and 12 ways per pole respectively.
Accepting a wide cable CSA range (1 - 50 sqmm) and of compact size, Zetablocks are ideal for control cabinets and distribution panels.
The lateral arrangement of terminals on upper and lower faces (Z35-DP14B one face only), simplifies connection and promotes tidy, homogeneous cable routing to assist subsequent wiring operations.
Easy entry apertures provide quick, effective cable insertion while the indirect clamping feature eliminates damage to cable strands and assures a low, stable contact resistance.



Technical features:
- **Self extinguishing antishock Polycarbonate body**
- **Tempered Steel captive clamping screws and plates**
- **Electrolytically Tin plated Copper interconnectors**

POWER DISTRIBUTION BLOCK

indirect clamping

type
ZETA*block*®





CONNECTING CAPACITY OF POWER DISTRIBUTION BLOCK

indirect clamping

Type	Nominal Section	No. of Ways x Nominal Section	Connecting Capacity of Each Way No. of Conductors x Section	Markings
Z25-DP7-100	25□/6□	2 x 25□	1 x 25□ F 1 x 16□ F 1÷2 x 10□ F	CE UKCA 25÷6 sqmm
		5 x 6□	1 x 6□ F 1 x 4□ F 1÷2 x 2,5□ F 1÷2 x 1,5□ F 1÷4 x 1□ F	
Z35-DP14-125 Z35-DP14B-125	35□/16□/6□	2 x 35□	1 x 35□ F 1 x 25□ F 1÷2 x 16□ F 1÷3 x 10□ F	CE UKCA 35÷16÷6 sqmm
		2 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F 1÷3 x 4□ F 1÷4 x 2,5□ F	
		10 x 6□	1 x 6□ F 1 x 4□ F 1÷2 x 2,5□ F 1÷2 x 1,5□ F 1÷4 x 1□ F	
Z50-DP12-160	50□/25□/16□	2 x 50□	1 x 50□ F 1 x 35□ F 1÷2 x 25□ F	CE UKCA 50÷25÷16 sqmm
		4 x 25□	1 x 25□ F 1 x 16□ F 1÷2 x 10□ F	
		6 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F	

F = Flexible conductor

MARKINGS

CE

Italian Institute of the Quality Mark type approval

UKCA

Conforms to:

Directive 2014/35/UE

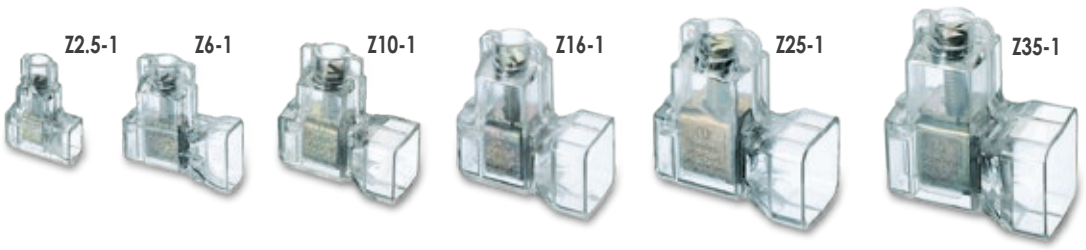
EN 60947-7-1: 2009 Norms

CEMBRE

Z-1

ONE WAY TERMINAL BLOCKS

indirect clamping



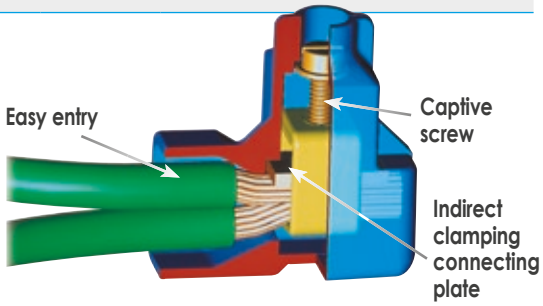
type ZETAmini®



Connecting Capacity sqmm	Type	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
2,5	**Z2.5-1**	450	85	IP20	V-0 (UL 94)	7,6x20xh23,5	3	*400/25*
6	**Z6-1**	450	85	IP20	V-0 (UL 94)	11,5x28xh29	6	*200/25*
10	**Z10-1**	450	85	IP20	V-0 (UL 94)	15,6x32xh32,5	11	*80/10*
16	**Z16-1**	450	85	IP20	V-0 (UL 94)	18x34xh38	15	*60/10*
25	**Z25-1**	450	85	IP20	V-0 (UL 94)	20,8x42,5xh43,5	29	*50/10*
35	**Z35-1**	450	85	IP20	V-0 (UL 94)	25x45xh51,5	37	*40/10*

One way, single pole terminal blocks for conductors sections from 0.5 to 35 sqmm.
Self contained and robust, they are ideal for the fast and safe installation for industrial and domestic applications.
The indirect clamping of the "ZETAmini" terminal blocks guarantees a low and stable contact resistance.
The easy-entry receptacle also grants a fast and reliable insertion of the cable.
Technical features:

- **Self-extinguishing Polycarbonate body**
- **Electrolytically Zinc plated, tempered Steel clamp and screw**
- **Electrolytically Tin plated Steel connection plate**



Type	Nominal Section	Connecting Capacity of Each Way* No. of Conductors x Section		Markings
Z2.5-1	2,5□	2 x 2,5□ R/F 2÷3 x 1,5□ R/F 2÷5 x 1,0□ R/F	2÷6 x 0,75□ R/F 2÷10 x 0,5□ R/F 2÷18 x Ø 0,4÷0,6 mm communication type wire	2,5 sqmm 450 V T 85°C IP 20
Z6-1	6□	2 x 6□ R/F 2÷3 x 4□ R/F 2÷4 x 2,5□ R/F 2÷6 x 1,5□ R/F 2÷6 x 1□ R/F	2÷10 x 0,75□ R/F 2÷12 x 0,5□ R/F (1 x 6□ F) + (4 x 1,5□ F) (1 x 6□ F) + (2 x 2,5□ F)	6 sqmm 450 V T 85°C IP 20
Z10-1	10□	2 x 10□ R/F 2÷3 x 6□ R/F 2÷5 x 4□ R/F 2÷8 x 2,5□ R/F	2÷12 x 1,5□ R/F 2÷20 x 1□ R/F 2÷25 x 0,75□ R/F	10 sqmm 450 V T 85°C IP 20
		(1 x 6□ F) + (1 x 4□ F) + (2 x 2,5□ F) + (3 x 1,5□ F)		
Z16-1	16□	2 x 16□ R/F 2÷3 x 10□ R/F 2÷5 x 6□ R/F	2÷8 x 4□ R/F 2÷12 x 2,5□ R/F 2÷18 x 1,5□ R/F	16 sqmm 450 V T 85°C IP 20
Z25-1	25□	2 x 25□ R/F 2÷3 x 16□ R/F 2÷4 x 10□ R/F	2÷8 x 6□ R/F 2÷11 x 4□ R/F 4÷16 x 2,5□ R/F	25 sqmm 450 V T 85°C IP 20
Z35-1	35□	2 x 35□ R/F 2÷3 x 25□ R/F 2÷4 x 16□ R/F 2÷7 x 10□ R/F	2÷11 x 6□ R/F 4÷17 x 4□ R/F 5÷28 x 2,5□ R/F	35 sqmm 450 V T 85°C IP 20

**A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than twice the nominal section.*
R = Rigid conductor F = Flexible conductor

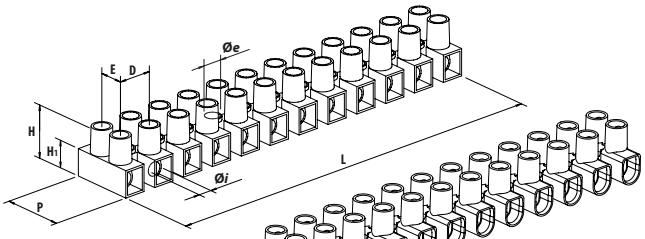
Conforms to:

Directive 2014/35/UE

EN 60998-1: 2004 and
EN 60998-2-1: 2004 Norms

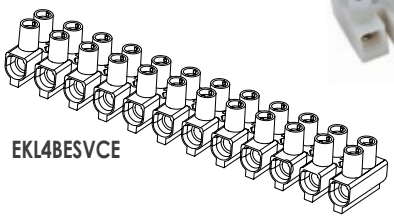
TERMINAL BLOCK TYPE EKL

EKL

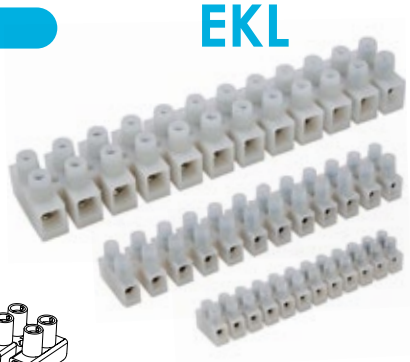


EKL0EPA12N
EKL1BEPA12N
EKL2EPA12N
EKL3EM4PA12N

EKL0S
EKL1S
EKL2S
EKL3S



EKL4BESVCE



PA6.6 | Steel CHROME | V2 UL94 | CE | UKCA

Type 12 Poles of Polyamide (PA6.6)

	Type	Nominal section sqmm	Dimensions mm								Screw	Quantity
			Øi	Øe	L 12 poles	H	H1	P	E	D		
□	EKL0EPA12N	2,5	3,0	2,6	94,0	14,5	9,2	16,4	6,0	8,0	M3	50
□	EKL1BEPA12N	4	3,4	3,2	116,2	15,7	8,3	20,2	10,0	10,0	M3	30
□	EKL2EPA12N	10	4,3	3,2	139,8	20,0	10,8	23,1	10,0	12,0	M3,5	20
□	EKL3EM4PA12N	16	5,8	4,1	171,8	24,8	14,7	32,1	13,0	14,5	M4*	25
□	EKL4BEPA12N	25	7,4	4,6	208,5	34,0	14,7	37,5	17,0	18,0	M5	25

** Combination head screws*

□ **Nominal voltage: 450 V**
Ambient temperature: max 110°C

PP | Steel CHROME | CE | HF HALOGEN FREE

Type 12 Poles of Polypropylene (PP)

	Type	Nominal section sqmm	Dimensions mm								Screw	Quantity
			Øi	Øe	L 12 poles	H	H1	P	E	D		
●	EKL0S	4	3,2	2,65	94,9	13,0	-	16,6	6,4	8,1	M2,6	50
●	EKL1S	6	3,5	3,4	116,5	14,9	-	18,9	7,3	10,0	M3	30
●	EKL2S	10	4,3	3,7	133,8	17,3	-	23,4	10,0	11,5	M3,5	15
●	EKL3S	16	5,5	4,9	174,5	25,0	-	20,7	11,0	15,0	M4	25
◇	EKL4BESVCE	25	7,0	4,0	187,3	28,0	-	30,0	11,0	16,0	M5	25

● **Nominal voltage: 450 V**
Ambient temperature: max 80°C

◇ **Nominal voltage: 750 V**
Ambient temperature: max 80°C

Material:
- **Block made of chromium plated Brass**
- **Screw made of chromium plated Steel**

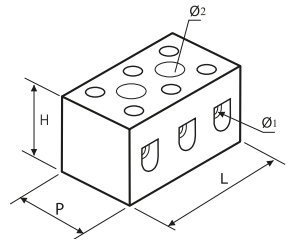
Variants upon request for version en Polyamide PA6.6
N° of poles from 1 to 11:
- eplace reference 12 with n° of required poles
- Versions with protection plate: add reference "DSN"

EKL 0E PA | XX | XX
N° poles | DSN version with protective blade

DSN

TERMINAL BLOCK TYPE ZS

ZS





Type	Nominal section sqmm		No. of poles	Dimensions mm					Quantity
	Low Str.	Flex		Ø1	Ø2	L	H	P	
ZS-U6	4/6	4	1	2,8	-	9	18	19	200
ZS-B6	4/6	4	2	2,8	4,0	22	18	19	80
ZS-T6	4/6	4	3	2,8	4,0	36	18	19	60
ZS-U10	10	6	1	4,3	-	13	20	21	200
ZS-B10	10	6	2	4,3	4,8	24	20	21	80
ZS-T10	10	6	3	4,3	4,8	36	20	21	70
ZS-U16	16	10	1	6,1	-	15	22	27	100
ZS-B16	16	10	2	6,1	5,0	31	22	27	50
ZS-T16	16	10	3	6,1	5,0	48	22	27	30

STEATITE | Steel ZINC PLATED | BRASS | 450V | MAX +350°C | CE

Material:
- **insulating body in STEATITE**
- **screw in GALVANIZED STEEL**
- **BRASS clamp**

Nominal voltage: 450 V
Operating temperature: 350°C

CEMBRE

DB/1N

UNIPOLAR DISTRIBUTION BLOCKS

direct clamping



DBLOCK UNIPOLAR SERIES

- 80, 125, 160, 250, 400, 500 A distribution blocks
- Versions available with 6, 7 or 11 outputs (see table)
- Wire entry facilitated by chamfered entry holes and clamping screws
- Terminals maintain excellent stability of the connection over time
- Connection can be expanded through dedicated unipolar jumpers (can be used for types DB125-7/1N and DB160-7/1N)





PC · PA 6.6 · BRASS · 3µm TIN PLATED · Steel ZINC PLATED · V0 UL94 · IP20 · 1000V · c UL us File no. E523349 · CE · UKCA

Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	IEC® 60947-7-1 Nominal voltage	IEC® 60947-7-1 Nominal Current	UL® 1059 Nominal voltage	UL® 1059 Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Qty
DB80-6/1N	1	6÷16	6 (4+2)	(4) 2,5÷6 (2) 2,5÷16	1000 V	80 A	600 V	85 A	3 kA	22 kA	V-0 (UL 94)	66x27xh46	70	5
DB125-7/1N	1	10÷35	7 (6+1)	(6) 2,5÷16 (1) 6÷16	1000 V	125 A	600 V	150 A	4.2 kA	30 kA	V-0 (UL 94)	77x29xh46	142	5
DB160-7/1N	1	10÷70	7 (6+1)	(6) 2,5÷16 (1) 6÷16	1000 V	160 A	600 V	200 A	11.8 kA	30 kA	V-0 (UL 94)	77x29xh46	136	5
DB250-11/1N	1	35÷120	11 (2+5+4)	(2) 6÷35 (5) 2,5÷16 (4) 2,5÷10	1000 V	250 A	600 V	255 A	24.5 kA	51 kA	V-0 (UL 94)	96x46xh50	423	3
DB400-11/1N	1	95÷185	11 (2+5+4)	(2) 6÷35 (5) 2,5÷16 (4) 2,5÷10	1000 V	400 A	600 V	335 A	24.5 kA	51 kA	V-0 (UL 94)	96x46xh50	402	3
DB500-11/1N	1	8x24 Flex. Busbar	11 (2+5+4)	(2) 6÷35 (5) 2,5÷16 (4) 2,5÷10	1000 V	500 A	600 V	335 A	24.5 kA	51 kA	V-0 (UL 94)	96x46xh50	388	3

DB/2

BIPOLAR DISTRIBUTION BLOCKS

direct clamping



DBLOCK BIPOLAR SERIES

- 40, 100, 125 A bipolar distribution blocks
- Versions available with 6, 13, 14 or 15 outputs (see table)
- Wire entry facilitated by chamfered entry holes
- Terminals maintain excellent stability of the connection over time



PC · PA 6.6 · BRASS · Steel ZINC PLATED · V0 UL94 · 500V · 690V · CE · UKCA

Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
DB40-15/2	2	6÷16 4÷10	15	1,5÷4 / 0,75÷4	500 V	40 A	4.5 kA	22 kA	V-0 (UL 94)	50x130xh50	216	1
DB100-6/2	1	10÷25	6 (3+3)	(3) 1,5÷4 / 0,75÷4 (3) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	50x64xh50	110	1
DB100-13/2	2	10÷25	13 (6+7)	(6) 1,5÷4 / 0,75÷4 (7) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	50x130xh50	208	1
DB125-6/2	1	10÷35	6 (5+1)	(5) 2,5÷6 / 1,5÷6 (1) 10÷25 / 6÷16	690 V	125 A	4.5 kA	18 kA	V-0 (UL 94)	50x94xh50	160	1
DB125-14/2	1	10÷35	14 (11+3)	(11) 2,5÷6 / 1,5÷6 (3) 10÷25 / 6÷16	690 V	125 A	4.5 kA	18 kA	V-0 (UL 94)	50x162xh50	266	1
DB125-14/2C	2	10÷35 10÷16	13 (11+2)	(11) 2,5÷6 / 1,5÷6 (2) 10÷25 / 6÷16	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	50x130xh50	204	1

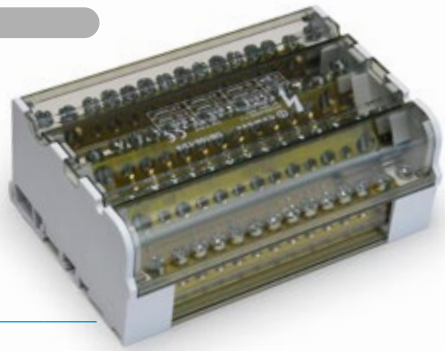
TETRAPOLAR DISTRIBUTION BLOCKS

direct clamping



DBLOCK TETRAPOLAR

- 40, 100, 125, 160 A distribution blocks
- Versions available with 6, 13, 14 or 15 outputs (see table)
- Wire entry facilitated by chamfered entry holes
- Terminals maintain excellent stability of the connection over time



DB/4

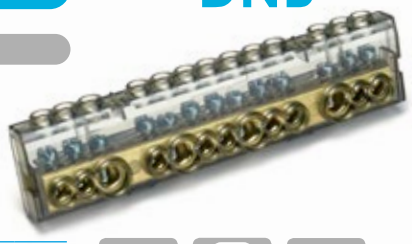
Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
DB40-11/4	2	6÷16 4÷10	11	1,5÷4 / 0,75÷4	500 V	40 A	4.5 kA	22 kA	V-0 (UL 94)	90x100xh50	351	1
DB100-6/4	1	10÷25	6 (3+3)	(3) 1,5÷4 / 0,75÷4 (3) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	90x64xh50	230	1
DB100-13/4	2	10÷25	13 (6+7)	(6) 1,5÷4 / 0,75÷4 (7) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	90x130xh50	444	1
DB125-6/4	1	10÷35	6 (5+1)	(5) 2,5÷6 / 1,5÷6 (1) 10÷25 / 6÷16	690 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x109xh50	326	1
DB125-10/4	1	10÷35	10 (7+3)	(7) 2,5÷6 / 1,5÷6 (3) 10÷25 / 6÷16	690 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x147xh50	440	1
DB125-10/4C	2	10÷35 10÷16	9 (7+2)	(7) 2,5÷6 / 1,5÷6 (2) 10÷25 / 6÷16	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x100xh50	306	1
DB125-14/4	1	10÷35	14 (11+1+2)	(11) 2,5÷6 / 1,5÷6 (1) 10÷25 / 6÷16 (2) 10÷35 / 10÷25	690 V	125 A	4.2 kA	14.5 kA	V-0 (UL 94)	90x182xh50	586	1
DB125-14/4C	2	10÷35 10÷16	13 (11+2)	(11) 2,5÷6 / 1,5÷6 (2) 10÷25 / 6÷16	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x130xh50	398	1
DB160-11/4	1	10÷50	11 (3+7+1)	(3) 10÷35 / 10÷25 (7) 2,5÷16 / 1,5÷16 (1) 2,5÷6 / 1,5÷6	690 V	160 A	8.2 kA	35 kA	V-0 (UL 94)	96x175xh50	738	1

ACCESSORIES

neutral bars



DNB



Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Type Application	Length mm	Weight g	Quantity
DNB125-9	4	10÷25 / 6÷16	9	2,5÷6 / 1,5÷6	-	125 A	4.5 kA	30 kA	DB125-10/4 DB125-14/4	142	172	1
DNB160-10	4	10÷35 / 10÷25	10	2,5÷16 / 1,5÷16	-	160 A	6.2 kA	35 kA	DB160-11/4	168	192	1

unipolar jumper

DJ160



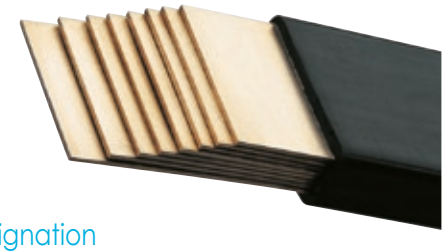
Type	Nominal Current	Type Application	Length mm	Weight g	Quantity
DJ160	125 A - 160 A	DB125-7/1N - DB160-7/1N	37	29	5

CEMBRE

SFI

INSULATED FLEXIBLE BUSBAR





Designation

SFI	8	x	24	x	1
Insulated flexible busbar	Number of strips		Strip width mm		Strip thickness mm

Cu-ETP ELECTROLYTIC | PVC | MAX +85°C | V0 UL94 | c UL us File no. E326218

Concept and design

CEMBRE SFI series insulated flexible busbar comprises a set of Cu strips within an insulated sleeve - for widths 9-50mm this is extruded PVC, for widths 63-100mm it is heat shrunk material.
The dielectic strength of the insulation is guaranteed independent of the eventual formation of the busbar and its working conditions (humidity, temperature and environmental aggressors).

Dimensions

Standard length:
2000 mm (consult us for other lengths)
Strip thickness:
0,5 - 1 mm
Number of strips:
2 - 12.

Applications

- Power distribution, substituting cable with extruded insulation and rigid busbar
- Electrical equipment (racks, circuit breakers, rectifiers)
- Transformers

Advantages

Insulated flexible busbar is a self-contained system combining convenient layout and connection with assured insulation and self-supporting construction, resulting in reduced cost installations with extreme ease of use.

Compared to plain busbar:

- Higher current capacity size for size
- Space saving as individual insulated busbars may be positioned in closer proximity
- Layout easier and quicker due to flexibility
- Insulated support not required.

Compared to cables:

- Simple and rapid installation
- Space saving due to tighter bend radius
- Insulated support not required.

Principle of selection

The following charts allow selection of the appropriate configuration based on:
- ambient temperature of 35°C
- required current carrying capacity in Amps
- maximum permitted temperature increase

Example of selection

Required current carrying capacity per phase is 630A.
Maximum permitted temperature in the equipment enclosure is 85°C:
- ambient temperature is 35°C
- maximum permitted temperature rise is 85°C - 35°C = 50°C

The possible selections are where the red vertical line (630A) intersects the green temperature band (50°C):

SFI8X24X1
SFI6X32X1
SFI4X40X1

The final selection will depend on limitations relating to connection palm width.

Technical features

PVC Insulation (for width 9 - 50mm):
- Colour: Black
- Density: 1,36 g/cm^3
- Hardness: 86 Shore A
- Breaking resistance: ≃ 18 MPa
- Breaking elongation: ≃ 300 %
- Self-extinguishing class: Vo (UL94)

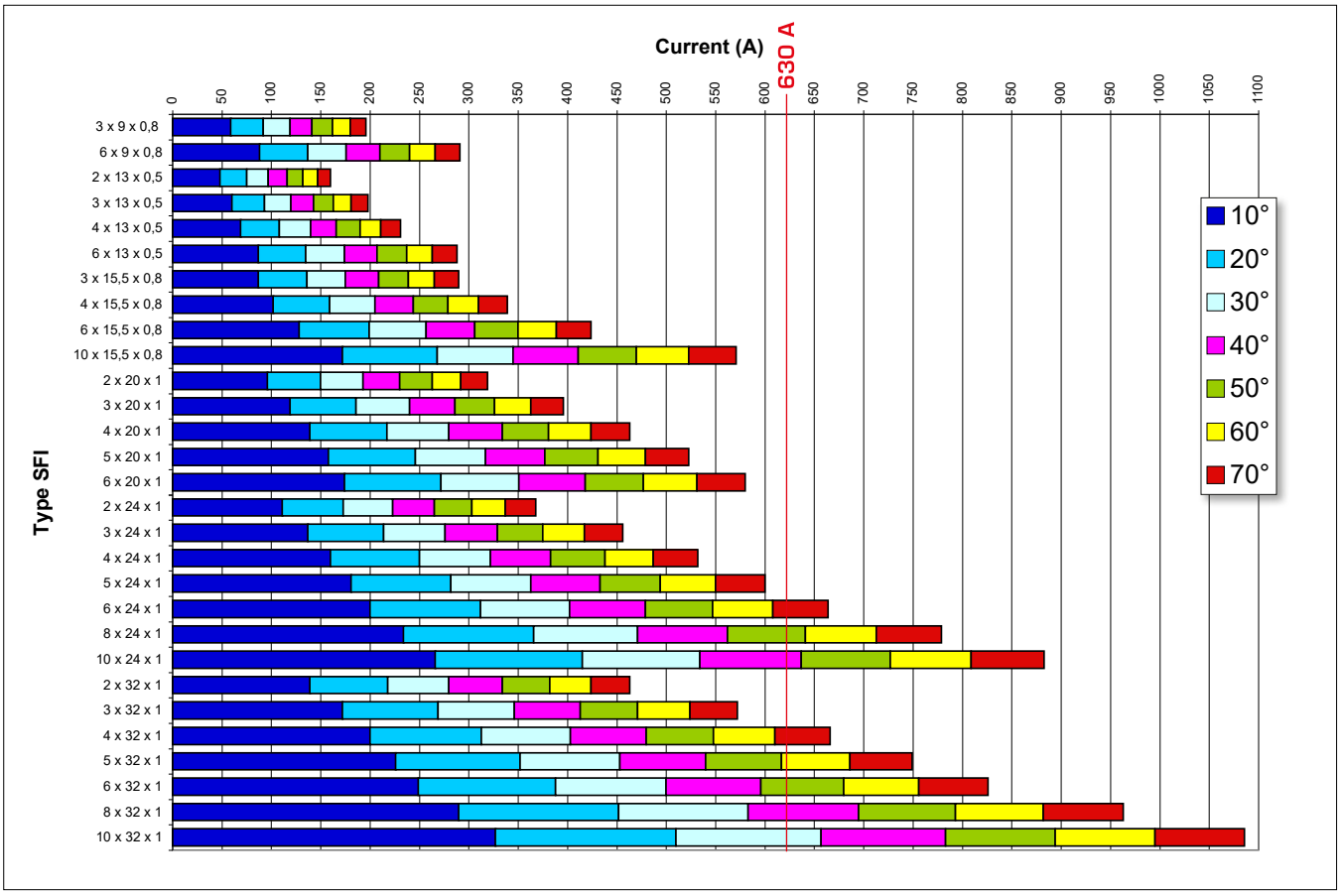
Strip:
- Copper designation: Cu-ETP
- Copper purity min: 99,9%
- Max electrical resistivity at 20°C: 1,7241μΩ/cm (100% IACS)
- Breaking resistance min: 200MPa
- Breaking elongation min: 30%
- Hardness: <55 HV
- Surface protection: Sm 99
- Thickness of tin plating: 2 ÷ 4 μm

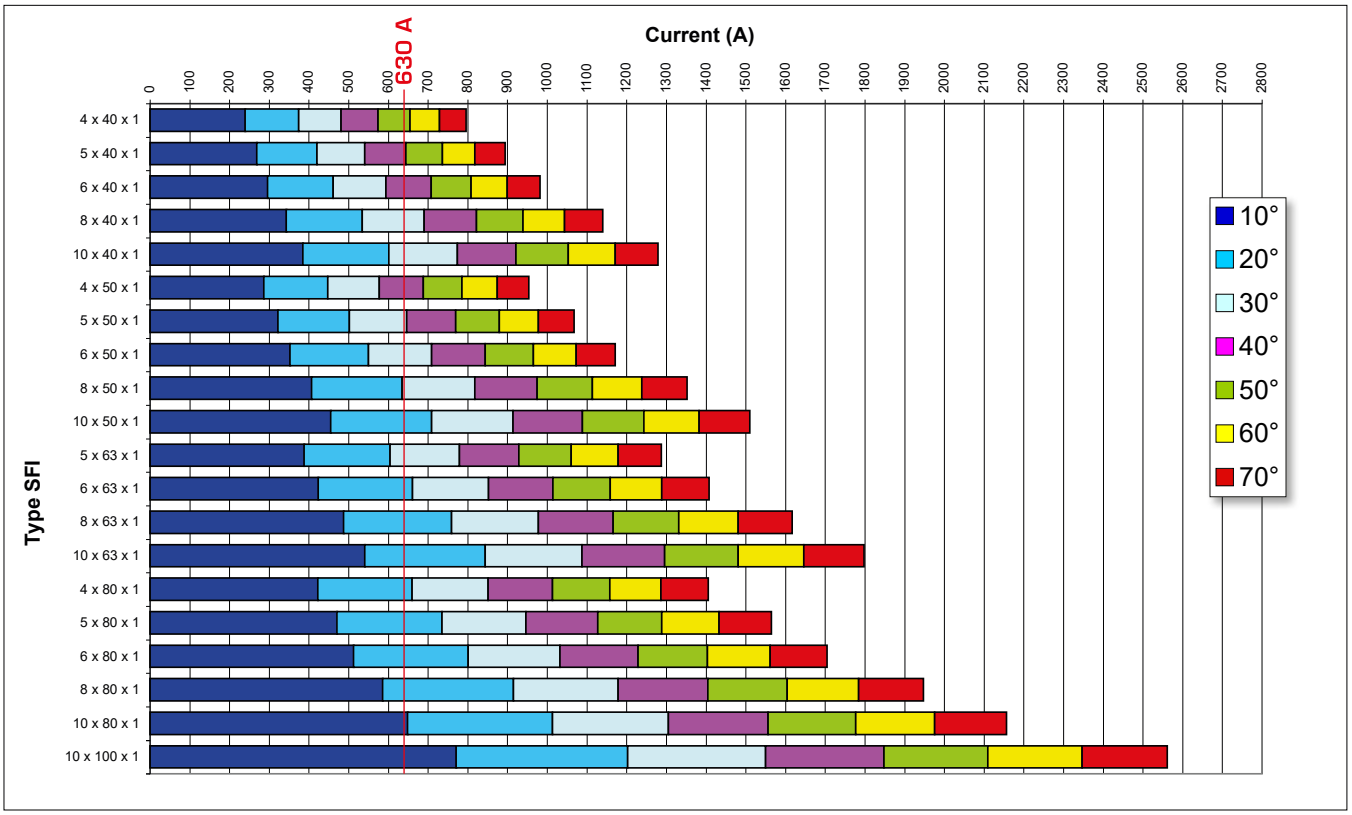
Insulated flexible busbar:
- max working voltage: 1000 V AC /1500 V DC
- Working temperature: –40°C ÷ +105°C
- Average thickness of extruded PVC: 2mm
- Average dielectric strength between conductor and earth: 15 kV/mm (50Hz) between conductors: 30 kV/mm (50Hz)

Total conductor c.s.a. sqmm	Type
21,6	SFI3X9X0.8
43,2	SFI6X9X0.8
13,0	SFI2X13X0.5
19,5	SFI3X13X0.5
26	SFI4X13X0.5
39	SFI6X13X0.5
24,8	SFI2X15.5X0.8
37,2	SFI3X15.5X0.8
49,6	SFI4X15.5X0.8
74,4	SFI6X15.5X0.8
124	SFI10X15.5X0.8
40	SFI2X20X1
60	SFI3X20X1
80	SFI4X20X1
100	SFI5X20X1
120	SFI6X20X1
48	SFI2X24X1
72	SFI3X24X1
96	SFI4X24X1
120	SFI5X24X1
144	SFI6X24X1
192	SFI8X24X1
240	SFI10X24X1
64	SFI2X32X1
96	SFI3X32X1
128	SFI4X32X1
160	SFI5X32X1
192	SFI6X32X1
256	SFI8X32X1
320	SFI10X32X1
160	SFI4X40X1
200	SFI5X40X1
240	SFI6X40X1
320	SFI8X40X1
400	SFI10X40X1
200	SFI4X50X1
250	SFI5X50X1
300	SFI6X50X1
400	SFI8X50X1
500	SFI10X50X1
315	SFI5X63X1
378	SFI6X63X1
504	SFI8X63X1
630	SFI10X63X1
320	SFI4X80X1
480	SFI6X80X1
640	SFI8X80X1
800	SFI10X80X1
1000	SFI10X100X1

Current carrying capacity (A)

Temperature increase for each configuration based on an ambient temperature of 35°C

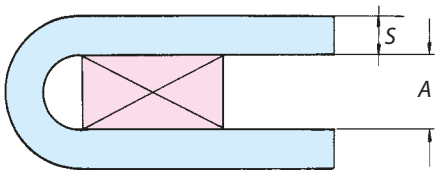




Mechanical bending and torsion testing

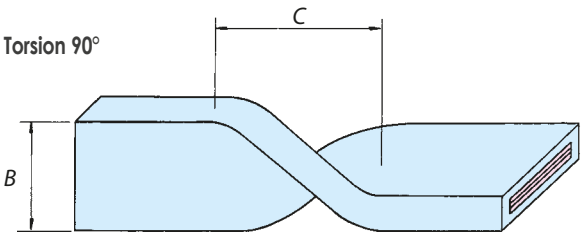
Test temperatures: –10°C and +80° C.

Bending 180°



S = Bar thickness (conductor + insulation)
A = 2 x S

Torsion 90°



B = Bar width (conductor + insulation)
C = 1,5 x B

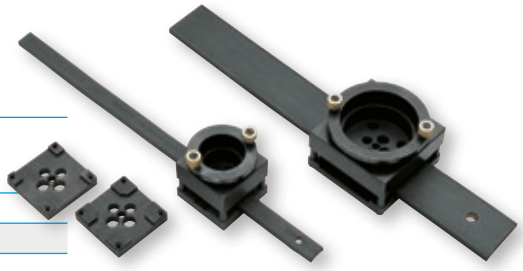
In both cases the tests do not show damage to the insulation



Insulated flexible busbar installation

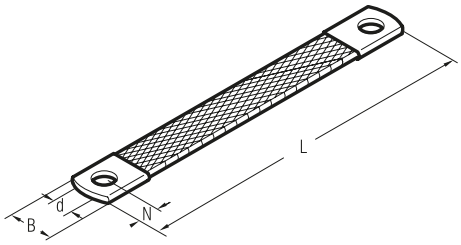
Bending:
Small section configurations may be bent manually. When tooling is used, protect the insulated sleeve of the busbar from damage.
As the Cu strips move relative to each other during bending, this operation should be completed before drilling.

Drilling:
Drilling templates type **MFB 13-40** and type **MFB 50-63** (available as optional extras) are designed to facilitate accurate location of fixing holes in the busbar of Ø 8, 10, 12 mm.
It is recommended that the insulation of the busbar is not removed before drilling is completed, as it assists the operation.



Template type	includes drilling inserts	for bar width mm
MFB 13-40	SFB13-16	for bar width 13÷15,5 mm
	SFB20-24	for bar width 20÷24 mm
	SFB32-40	for bar width 32÷40 mm
MFB 50-63	SFB50-63	for bar width 50÷63 mm

FLEXIBLE BRAIDS





Size sqmm	Ø Stud mm	Type	Dimensions mm				Quantity
			B	N	L	d	
10	8	FL10-150	17	10	150	8,5	50
	8	FL10-200	17	10	200	8,5	50
	8	FL10-250	17	10	250	8,5	50
16	8	FL16-150	17	10	150	8,5	50
	8	FL16-200	17	10	200	8,5	50
	8	FL16-250	17	10	250	8,5	50
	8	FL16-320	17	10	320	8,5	50
	8	FL16-350	17	10	350	8,5	50
	8	FL16-420	17	10	420	8,5	25
	8	FL16-570	17	10	570	8,5	25
	8	FL16-660	17	10	660	8,5	25
25	8	FL25-150	21	10	150	8,5	50
	8	FL25-200	21	10	200	8,5	50
	8	FL25-250	21	10	250	8,5	50
	8	FL25-300	21	10	300	8,5	50

Cu-ETP

ANNEALED

3µm TIN PLATED

-50°C +150°C

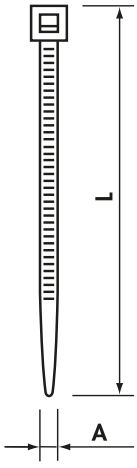
Flexible braids are manufactured from electrolytic Copper wire.
Braids of different conductor sizes or lengths are available on request.
Standard finish - bright Copper.
Flexible braids can be supplied Tin plated, in this case add the suffix "ST" to reference.

E.g.:
- FL10-150 (Bright Copper)
- FL10-150-ST (Tin plated)

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE



Material: PA6.6 Polyamide
Self-extinguishing V2 (UL 94)
Humidity absorption:
2,5% (at 50% relative humidity)
Operating temperature:
From –40°C to +85°C (continuous)
From –40°C to +120°C (short periods)
Resistant to:
oils, greases, oil products, chlorinated solvents.
Colour: Natural or Black (Ral 2005)





Black ties have higher UV resistance due to increased carbon black loading



Natural ties offer rapid installation due to the low friction coefficient of the material

Cable Ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity	
G80X2.4	80	2,4	15	8	100	Minimum order: 1.000 pcs
G80X2.4N						
G80X2.4/M					1000	
G80X2.4N/M						
G90X2.4	90		16		100	
G90X2.4N						
G100X2.5	100	2,5	22			
G100X2.5N						
G100X2.5/M					1000	
G100X2.5N/M						
G120X2.5	120		30		100	
G120X2.5N						
G140X2.5	140		33			
G140X2.5N						
G140X2.5/M					1000	
G140X2.5N/M					1000	
G160X2.5	160		40		100	
G160X2.5N						
G160X2.5/M					1000	
G160X2.5N/M						
G200X2.5	200		53		100	
G200X2.5N						
G200X2.5/M					1000	
G200X2.5N/M						
G250X2.8	250	2,8	65	14	100	
G250X2.8N						
G300X2.8	300		76			
G300X2.8N						
G120X3.6	120	3,6	30	18		
G120X3.6N						
G140X3.6	140		33			
G140X3.6N						
G140X3.6/M					1000	
G140X3.6N/M						
G150X3.6	150		35		100	
G150X3.6N						
G180X3.6	180		44			
G180X3.6N						
G200X3.6	200		53			
G200X3.6N						
G200X3.6/M					1000	
G200X3.6N/M						
G250X3.6	250		65		100	
G250X3.6N						
G300X3.6	300		76			
G300X3.6N						
G300X3.6/M					1000	
G300X3.6N/M						
G370X3.6	370		102		100	
G370X3.6N						
G120X4.8	120	4,8	24	22		
G120X4.8N						
G160X4.8	160		38			
G160X4.8N						
G190X4.8	190		46			
G190X4.8N						
G190X4.8/M					1000	
G190X4.8N/M						
G200X4.8	200		50		100	
G200X4.8N						
G200X4.8/M					1000	
G200X4.8N/M						
G250X4.8/M	250		60			
G250X4.8N/M						
G250X4.8	250		60		100	Minimum order: 100 pcs
G250X4.8N						
G280X4.8	280		70			
G280X4.8N						
G300X4.8	300		76			
G300X4.8N						
G370X4.8	370		102			
G370X4.8N						
G390X4.8	390		105			
G390X4.8N						
G430X4.8	430		110			
G430X4.8N						

Note: In Type, N = Black

Recommended tools are shown on page 219

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Cable Ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity	
G450X4.8 G450X4.8N	450	4,8	116	22	100	Minimum order: 100 pcs
G530X4.8 G530X4.8N	530		140			
G150X7.6 G150X7.6N	150	7,6	33	55		
G200X7.6 G200X7.6N	200		50			
G250X7.6 G250X7.6N	250		65			
G300X7.6 G300X7.6N	300		76			
G370X7.6 G370X7.6N	370		102			
G430X7.6 G430X7.6N	430		125			
G530X7.6 G530X7.6N	530		140			
G430X9.0 G430X9.0N	430	9,0	110	80		
G530X9.0 G530X9.0N	530		140			
G710X9.0 G710X9.0N	710		190			
G780X9.0 G780X9.0N	780		228			
G830X9.0 G830X9.0N	830		239			
G920X9.0 G920X9.0N	920		263			
G1020X9.0 G1020X9.0N	1020		295			
G1220X9.0 G1220X9.0N	1220		365			
G230X12.6 G230X12.6N	230	12,6	50	115		
G380X12.6	380		106			
G480X12.6 G480X12.6N	480		120			
G580X12.6 G580X12.6N	580		152			
G730X12.6 G730X12.6N	730		204			
G880X12.6 G880X12.6N	880		248			
G1030X12.6 G1030X12.6N	1030		295			

Note: In Type, N = Black

Recommended tools are shown on page 219

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE





Angled tongue to facilitate easy introduction into the buckle

Rounded corners for increased safety

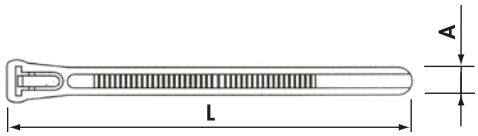
GR

CABLE TIES

GR series, PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE

Same features as G series.
Easy installation without tools.
Released by pressure on the tongue.
Suitable for temporary locking.





Releasable cable ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GR100X7.6N	100	7,6	20	22,2	100
GR120X7.6N	120		30		
GR150X7.6N	150		35		
GR200X7.6N	200		50		
GR250X7.6N	250		66		
GR300X7.6N	300		80		
GR370X7.6N	370		102		

Recommended tools are shown on page 219

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

GFH

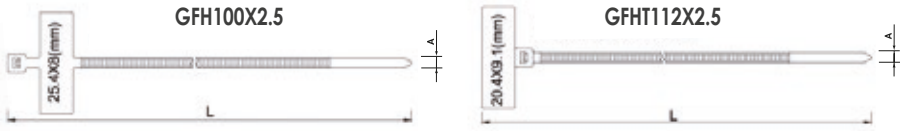
CABLE TIES

GFH series, PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE



Same features as G series.
Quick and easy identification of bundled conductors.
Write on panel with Felt tip pen.



Markable cable ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GFH100X2.5	100	2,5	18	8,1	100
GFHT112X2.5	112				

Recommended tools are shown on page 219

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

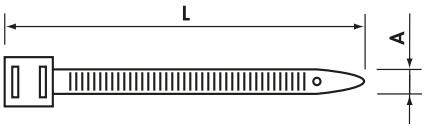
1600

CABLE TIES

1600 series, Elastomerized Polymer on Polyamide base

PA12 | HB UL94 | -45°C +120°C | UV RESISTANT | HF HALOGEN FREE

Resistant to: UV, salt atmosphere, oils, greases, oil products
Colour: Black





Cable Ties in PA12 Polyamide

Type	Head Type	L (mm)	A (mm)	Min. Bundle Ø (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
1618.90	single	180	9	15	40	40	100
1626.90	double	260	9	30	60	55	100
1636.90	double	360	9	30	93	55	100
1651.90	double	510	9	70	140	55	100
1676.90	double	760	9	70	220	55	100

Recommended tools are shown on page 219

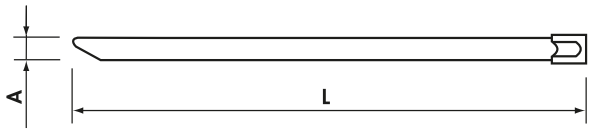
The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Material: Elastomerized Polymer on Polyamide base
Self-extinguishing HB (UL94)
Halogen free
Operating temperature:
From –45°C to +85°C (continuous)
From –45°C to +120°C (short periods)

CABLE TIES

GX

GX series, in Stainless Steel AISI 304



STAINLESS STEEL | -80°C +500°C



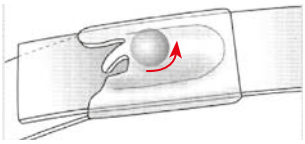
Cable Ties in Stainless Steel

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GX200X4.5	200	4,5	50	46	100
GX300X4.5	300		76		
GX370X4.5	370		102		
GX520X4.5	520		156		
GX370X7.9	370	7,9	102	114	
GX680X7.9	680		207		
GX1020X7.9	1020		312		

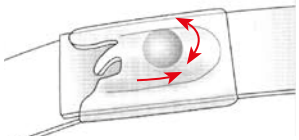
Recommended tools are shown on page 219

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Material:
Stainless Steel AISI 304
Unique ball locking mechanism that allows simple and rapid installation and secure locking.
Operating temperature:
From –80°C to +500°C
High tensile strength.
Non-flammability.
High resistance to acetic acid, alkalies, sulphuric acid, corrosion, etc.
In general very resistant to most hostile environments.



Insert the tongue into the buckle. The internal locking ball rolls freely as the tie is tightened.



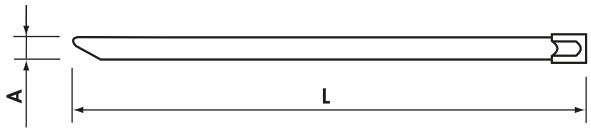
Once the correct tension is reached, use the specific tool to trim the tongue.
The ball then wedges into the buckle locking it tightly against both the top and bottom of the tie.



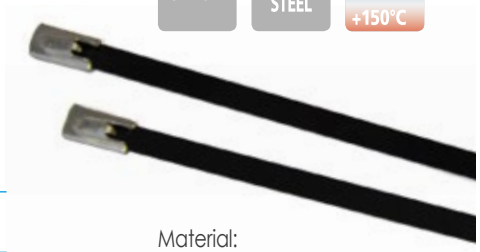
CABLE TIES

GXAC

GXAC series, 316 Stainless Steel coated with Polyester



POLYESTER | STAINLESS STEEL | -40°C +150°C



Coated Stainless Steel cable ties

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GXAC125X4.6	125	4,6	38,0	46	100
GXAC150X4.6	150		46,0		
GXAC200X4.6	200		61,9		
GXAC260X4.6	260		81,0		
GXAC290X4.6	290		90,6		
GXAC360X4.6	360		112,8		
GXAC520X4.6	520		163,8		
GXAC680X4.6	680		214,8		
GXAC840X4.6	840		265,7		
GXAC200X7.9	200	7,9	61,9	114	
GXAC290X7.9	290		90,6		
GXAC360X7.9	360		112,8		
GXAC520X7.9	520		163,8		
GXAC680X7.9	680		214,8		
GXAC840X7.9	840		265,7		

Recommended tools are shown on page 219

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Material:
316 stainless steel for the most corrosive environments coated with Polyester for insulation purpose, and a better outdoor application
Colour: Black
Smooth surface and rounded edges assures cable protection and user safety. Equipped with unique ball locking mechanism that allows simple and rapid installation and secure locking.
Operating temperature:
da –40°C a +150°C
High tensile strength
Very resistant to ultraviolet radiation and chemical corrosion
Non flammable

AB, CC, SS

ACCESSORIES

PA6.6 Polyamide



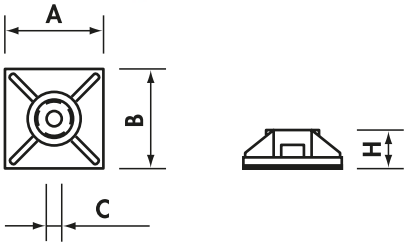
PA 6.6 | V2 UL94 | -40°C +120°C

Material: PA6.6 Polyamide
Self-extinguishing V2 (UL 94)
Humidity absorption:
2,5% (at 50% relative humidity)
Operating temperature:
From –40°C to +85°C (continuous)
From –40°C to +120°C (short periods)

Resistant to:
oils, bases, greases, oil products, chlorinated solvents.
Colour: Natural

Attention:
acrylic adhesive; to obtain the best result, wait at least 6 - 8 hours before applying the load.

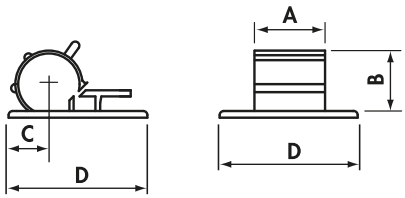




Self adhesive cable tie bases in PA6.6

Type	Max Tie (mm)	A (mm)	B (mm)	C (mm)	H (mm)	Fixing screw hole Ø (mm)	Quantity
AB13*	2,8	13,0	13,0	3,2	3,2	-	100
AB19*	3,6	19,0	19,0	4,0	4,4	3,1	100
AB28*	4,8	28,0	28,0	5,3	5,7	5,5	100

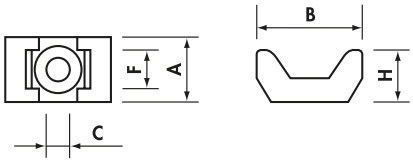
***Add to Ref: N for Black**





Self adhesive cable clips in PA6.6

Type	Cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Quantity
CC8.9	8-9	9,0	12,0	8,0	21,5	100
CC9.12	9-12	12,0	15,0	8,2	21,5	100





Cable tie saddle clamps in PA6.6

Type	Max Tie (mm)	A (mm)	B (mm)	C (mm)	F (mm)	H (mm)	Quantity
SS4.8-3.7	4,8	9,5	15	3,7	5,0	7,2	100
SS4.8-4.5	4,8	9,5	15	4,5	5,0	7,2	100
SS9-4.5	9	16,0	22	4,5	9,2	9,7	100
SS9-5	9	16,0	22	5,0	9,2	9,7	100
SS9-6.4	9	16,0	22	6,4	9,2	9,7	100

GH8

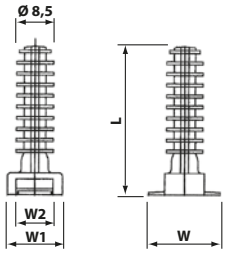
ACCESSORIES

PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°C +120°C



Same features as G series.
Push into Ø 8 mm hole.
Cable tie inserted through slot in head.



Stud fixing for cable ties in PA6.6

Type	W (mm)	W1 (mm)	W2 (mm)	L (mm)	Fixing hole Ø (mm)	Quantity
GH8	20	15	10	40,5	8	100

INSULATED COVERS

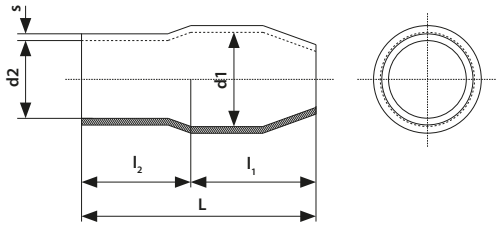
ES

For uninsulated connectors





PVC | V0 UL94 | MAX +85°C



Insulated covers in PVC for general use with CEMBRE A-M copper tube lugs characterised by environmental tolerance, flexibility, not inflammability & stable performance. Widely used for the insulation and protection of connections and electrical terminations.

General features:

- Material: PVC
- Self extinguishing (UL94): V0
- Working temperature: 85 °C
- Colours: red, yellow, blue, black, grey, brown.

Type	Connectors A-M *	d1 Ø	d2 Ø	l1 ±1	l2 ±1	L ± 2	s ± 0.2	Quantity	Minimum Order Qty
ES03-..	A03	3.3	3.1	7.0	8.0	15.0	0.6	*100*	*3.000*
ES06-..	A06	4.5	3.7	8.0	8.0	16.0	0.7	*100*	
ES1-..	A1	5.7	4.1	9.0	9.0	18.0	0.8	*100*	
ES2-..	A2	7.2	6.2	11.0	10.0	21.0	1.0	*100*	
ES3-..	A3	10.0	8.0	15.0	13.0	28.0	1.1	*100*	*1.000*
ES5-..	A5	12.0	9.5	15.0	14.0	29.0	1.2	*100*	
ES10-..	A7, A9, A10	14.0	11.8	17.0	17.0	34.0	1.4	*100*	
ES14-..	A12, A14	17.0	13.9	22.0	20.0	42.0	1.5	*100*	*500*
ES19-..	A17, A19	19.0	16.0	25.0	21.0	46.0	1.5	*50*	
ES24-..	A20, A24	22.0	18.0	31.0	24.0	55.0	1.7	*50*	*200*
ES30-..	A29, A30	24.0	20.0	32.0	28.0	60.0	1.8	*50*	
ES37-..	A35, A37	26.0	22.0	34.0	31.0	65.0	1.8	*50*	
ES40-..	A40	32.2	24.0	38.0	31.0	69.0	2.0	*50*	
ES48-..	A48	36.5	27.2	42.0	33.0	75.0	2.0	*50*	*100*
ES80-..	A60, A80	36.7	30.0	42.0	33.0	75.0	2.0	*25*	

Add the suffix corresponding to the selected colour to the reference:

-BU blue, -GY grey, -BR brown, -BK black, -RE red, -YE yellow,

** See A-M type copper tube lugs on pages 34-35, 37*
*** Depending on the diameter of the insulated cable*

CEMBRE

TCS

TERMOCOIL HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



Heat-shrinkable Polyolefin tubing coil for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.
Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

For general characteristics and technical specifications see page 108.

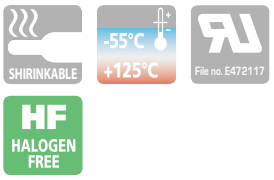
- Colours: Black, Red, White, Blue, Transparent, Yellow, Green, Grey, Brown, Yellow/Green.
- Packaging: Coil on Reel

		before shrinking	after shrinking		
Type	Coil Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour
TCS12X200BK	200 m	Ø 1,1 mm	Ø 0,50 mm	0,33 mm	BLACK
TCS16X200BK	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLACK
TCS24X200BK	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLACK
TCS32X200BK	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLACK
TCS48X100BK	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLACK
TCS64X100BK	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLACK
TCS95X100BK	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLACK
TCS127X100BK	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLACK
TCS160X100BK	100 m	Ø 16,5 mm	Ø 8,00 mm	0,70 mm	BLACK
TCS190X100BK	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLACK
TCS254X50BK	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLACK
TCS320X50BK	50 m	Ø 31,5 mm	Ø 15,0 mm	1,00 mm	BLACK
TCS381X50BK	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLACK
TCS508X25BK	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLACK
TCS762X25BK	25 m	Ø 70,0 mm	Ø 36,0 mm	1,30 mm	BLACK
TCS1016X25BK	25 m	Ø 100,0 mm	Ø 51,0 mm	1,30 mm	BLACK
TCS1260X25BK	25 m	Ø 120,0 mm	Ø 61,0 mm	1,30 mm	BLACK
TCS1500X25BK	25 m	Ø 150,0 mm	Ø 76,0 mm	1,30 mm	BLACK
TCS16X200RE	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	RED
TCS24X200RE	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	RED
TCS32X200RE	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	RED
TCS48X100RE	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	RED
TCS64X100RE	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	RED
TCS95X100RE	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	RED
TCS127X100RE	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	RED
TCS190X100RE	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	RED
TCS254X50RE	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	RED
TCS16X200WH	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	WHITE
TCS20X200WH	200 m	Ø 2,0 mm	Ø 0,85 mm	0,36 mm	WHITE
TCS24X200WH	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	WHITE
TCS32X200WH	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	WHITE
TCS48X100WH	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	WHITE
TCS64X100WH	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	WHITE
TCS95X100WH	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	WHITE
TCS127X100WH	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	WHITE
TCS190X100WH	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	WHITE
TCS254X50WH	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	WHITE
TCS16X200BU	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLUE
TCS24X200BU	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLUE
TCS32X200BU	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLUE
TCS48X100BU	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLUE
TCS64X100BU	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLUE
TCS95X100BU	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLUE
TCS127X100BU	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLUE
TCS190X100BU	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLUE
TCS254X50BU	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLUE
TCS381X50BU	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLUE
TCS508X25BU	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLUE

TERMOCOIL HEAT-SHRINKABLE TUBING

TCS

flame-retardant Polyolefin - shrinkage ratio 2÷1



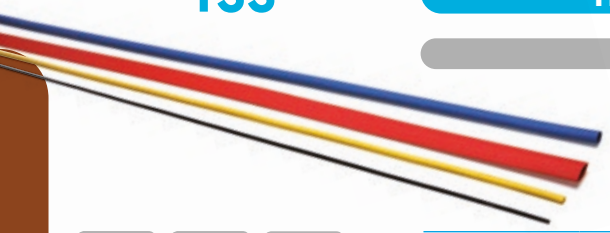
Type	Coil Length	before shrinking Internal Ø mm	after shrinking Internal Ø mm	after shrinking Thickness mm	Colour
TCS12X200TR	200 m	Ø 1,1 mm	Ø 0,50 mm	0,33 mm	TRANSPARENT
TCS16X200TR	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	TRANSPARENT
TCS24X200TR	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	TRANSPARENT
TCS32X200TR	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	TRANSPARENT
TCS48X100TR	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	TRANSPARENT
TCS64X100TR	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	TRANSPARENT
TCS95X100TR	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	TRANSPARENT
TCS127X100TR	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	TRANSPARENT
TCS160X100TR	100 m	Ø 16,5 mm	Ø 8,00 mm	0,70 mm	TRANSPARENT
TCS190X100TR	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	TRANSPARENT
TCS254X50TR	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	TRANSPARENT
TCS320X50BK	50 m	Ø 31,5 mm	Ø 15,0 mm	1,00 mm	TRANSPARENT
TCS381X50TR	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	TRANSPARENT
TCS508X25TR	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	TRANSPARENT
TCS762X25TR	25 m	Ø 70,0 mm	Ø 36,0 mm	1,30 mm	TRANSPARENT
TCS1016X25TR	25 m	Ø 100,0 mm	Ø 51,0 mm	1,30 mm	TRANSPARENT
TCS1260X25TR	25 m	Ø 120,0 mm	Ø 61,0 mm	1,30 mm	TRANSPARENT
TCS1500X25TR	25 m	Ø 150,0 mm	Ø 76,0 mm	1,30 mm	TRANSPARENT
TCS16X200YE	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW
TCS24X200YE	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW
TCS32X200YE	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW
TCS48X100YE	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW
TCS64X100YE	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW
TCS95X100YE	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW
TCS127X100YE	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW
TCS190X100YE	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW
TCS254X50YE	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW
TCS16X200GN	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREEN
TCS24X200GN	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREEN
TCS32X200GN	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREEN
TCS48X100GN	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREEN
TCS64X100GN	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREEN
TCS95X100GN	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREEN
TCS127X100GN	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREEN
TCS190X100GN	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREEN
TCS254X50GN	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREEN
TCS16X200GY	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREY
TCS24X200GY	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREY
TCS32X200GY	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREY
TCS48X100GY	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREY
TCS64X100GY	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREY
TCS95X100GY	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREY
TCS127X100GY	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREY
TCS190X100GY	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREY
TCS254X50GY	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREY
TCS381X50GY	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	GREY
TCS508X25GY	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	GREY
TCS16X200BR	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BROWN
TCS24X200BR	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BROWN
TCS32X200BR	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BROWN
TCS48X100BR	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BROWN
TCS64X100BR	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BROWN
TCS95X100BR	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BROWN
TCS127X100BR	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BROWN
TCS190X100BR	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BROWN
TCS254X50BR	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BROWN
TCS381X50BR	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BROWN
TCS508X25BR	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BROWN
TCS32X200Y/G	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW/GREEN
TCS48X100Y/G	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW/GREEN
TCS64X100Y/G	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW/GREEN
TCS95X100Y/G	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW/GREEN
TCS127X100Y/G	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW/GREEN
TCS190X100Y/G	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW/GREEN
TCS254X50Y/G	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW/GREEN
TCS381X50Y/G	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	YELLOW/GREEN
TCS508X25Y/G	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	YELLOW/GREEN

CEMBRE

TSS

TERMOSTRIP HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



SHRINKABLE -55°C +125°C File no. E472117

HF HALOGEN FREE

Heat-shrinkable Polyolefin tubing strip for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.
Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

For general characteristics and technical specifications see page 108.

- Colours: Black, Red, White, Blue, Transparent, Yellow, Green, Grey, Brown, Yellow/Green.
- Packaging: Strips in Box

		before shrinking	after shrinking			
Type	Strip Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour	Quantity Strips per box
TSS12BK	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	BLACK	30
TSS16BK	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLACK	30
TSS24BK	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLACK	30
TSS32BK	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLACK	30
TSS48BK	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLACK	30
TSS64BK	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLACK	30
TSS95BK	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLACK	20
TSS127BK	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLACK	15
TSS190BK	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLACK	10
TSS254BK	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLACK	6
TSS380BK	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLACK	4
TSS510BK	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLACK	2
TSS12RE	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	RED	30
TSS16RE	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	RED	30
TSS24RE	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	RED	30
TSS32RE	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	RED	30
TSS48RE	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	RED	30
TSS64RE	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	RED	30
TSS95RE	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	RED	20
TSS127RE	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	RED	15
TSS190RE	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	RED	10
TSS254RE	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	RED	6
TSS380RE	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	RED	4
TSS510RE	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	RED	2
TSS12WH	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	WHITE	30
TSS16WH	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	WHITE	30
TSS24WH	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	WHITE	30
TSS32WH	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	WHITE	30
TSS48WH	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	WHITE	30
TSS64WH	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	WHITE	30
TSS95WH	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	WHITE	20
TSS127WH	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	WHITE	15
TSS190WH	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	WHITE	10
TSS254WH	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	WHITE	6
TSS380WH	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	WHITE	4
TSS510WH	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	WHITE	2
TSS12BU	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	BLUE	30
TSS16BU	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLUE	30
TSS24BU	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLUE	30
TSS32BU	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLUE	30
TSS48BU	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLUE	30
TSS64BU	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLUE	30
TSS95BU	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLUE	20
TSS127BU	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLUE	15
TSS190BU	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLUE	10
TSS254BU	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLUE	6
TSS380BU	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLUE	4
TSS510BU	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLUE	2
TSS12TR	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	TRANSPARENT	30
TSS16TR	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	TRANSPARENT	30
TSS24TR	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	TRANSPARENT	30
TSS32TR	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	TRANSPARENT	30
TSS48TR	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	TRANSPARENT	30
TSS64TR	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	TRANSPARENT	30
TSS95TR	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	TRANSPARENT	20
TSS127TR	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	TRANSPARENT	15
TSS190TR	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	TRANSPARENT	10
TSS254TR	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	TRANSPARENT	6
TSS380TR	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	TRANSPARENT	4
TSS510TR	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	TRANSPARENT	2

TERMOSTRIP HEAT-SHRINKABLE TUBING

TSS

flame-retardant Polyolefin - shrinkage ratio 2÷1









Type	Strip Length	before shrinking Internal Ø mm	after shrinking Internal Ø mm	after shrinking Thickness mm	Colour	Quantity Strips per box
TSS12YE	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	YELLOW	30
TSS16YE	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW	30
TSS24YE	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW	30
TSS32YE	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW	30
TSS48YE	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW	30
TSS64YE	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW	30
TSS95YE	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW	20
TSS127YE	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW	15
TSS190YE	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW	10
TSS254YE	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW	6
TSS380YE	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	YELLOW	4
TSS510YE	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	YELLOW	2
TSS12GN	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	GREEN	30
TSS16GN	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREEN	30
TSS24GN	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREEN	30
TSS32GN	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREEN	30
TSS48GN	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREEN	30
TSS64GN	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREEN	30
TSS95GN	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREEN	20
TSS127GN	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREEN	15
TSS190GN	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREEN	10
TSS254GN	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREEN	6
TSS380GN	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	GREEN	4
TSS510GN	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	GREEN	2
TSS12GY	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	GREY	30
TSS16GY	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREY	30
TSS24GY	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREY	30
TSS32GY	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREY	30
TSS48GY	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREY	30
TSS64GY	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREY	30
TSS95GY	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREY	20
TSS127GY	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREY	15
TSS190GY	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREY	10
TSS254GY	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREY	6
TSS380GY	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	GREY	4
TSS510GY	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	GREY	2
TSS12BR	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	BROWN	30
TSS16BR	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BROWN	30
TSS24BR	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BROWN	30
TSS32BR	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BROWN	30
TSS48BR	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BROWN	30
TSS64BR	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BROWN	30
TSS95BR	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BROWN	20
TSS127BR	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BROWN	15
TSS190BR	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BROWN	10
TSS254BR	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BROWN	6
TSS380BR	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BROWN	4
TSS510BR	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BROWN	2
TSS16Y/G	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW/GREEN	30
TSS24Y/G	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW/GREEN	30
TSS32Y/G	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW/GREEN	30
TSS48Y/G	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW/GREEN	30
TSS64Y/G	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW/GREEN	30
TSS95Y/G	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW/GREEN	20
TSS127Y/G	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW/GREEN	15
TSS190Y/G	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW/GREEN	10
TSS254Y/G	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW/GREEN	6
TSS380Y/G	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	YELLOW/GREEN	4

CEMBRE

TBS

TERMOBLOCK HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



SHRINKABLE

-55°C +125°C

File no. E472117

HF HALOGEN FREE

General characteristics:

- Operating temperature: -55°C + 125°C
- Minimum shrinkage temperature: 70°C
- Temperature for complete shrinkage: 110°C
- RoHS compliant
- Colours: Black, Red, White, Blue, Grey, Brown, Yellow/Green.
- Packaging: Roll in Dispenser Box

Heat-shrinkable Polyolefin tubing for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.

Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

Technical Specifications:

Property	Test Method	Performance
Traction resistance (MPa):	ASTM D2671	≥10.4
Elongation at failure (%):	ASTM D2671	≥200
Traction resistance after heat aging (MPa):	UL 224 158°Cx168hr	≥7.3
Elongation at failure after heat aging (%):	UL 224 158°Cx168hr	≥100
Heat resistance:	UL 224 250°Cx4hr	No failure
Low temperature flexibility:	UL 224 -30°Cx4hr	No failure
Dielectric strength (kv/mm):	IEC 243	≥15
Insulation resistance:	600V UL 224	No perforation at 2500V
Volume resistance (Ω.cm):	IEC 93	$\geq 1x10^{14}$
Corrosive action:	UL 224 158°Cx168hr	Not corrosive
Copper compatibility:	UL 224 158°Cx168hr	Not corrosive
Flammability:	UL 224	VW-1

		before shrinking	after shrinking		
Type	Reel Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour
TBS16X20BK	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLACK
TBS24X20BK	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLACK
TBS32X10BK	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLACK
TBS48X10BK	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLACK
TBS64X10BK	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLACK
TBS95X10BK	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLACK
TBS127X10BK	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLACK
TBS190X5BK	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLACK
TBS254X5BK	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLACK
TBS16X20RE	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	RED
TBS24X20RE	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	RED
TBS32X10RE	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	RED
TBS48X10RE	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	RED
TBS64X10RE	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	RED
TBS95X10RE	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	RED
TBS127X10RE	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	RED
TBS190X5RE	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	RED
TBS254X5RE	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	RED
TBS16X20WH	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	WHITE
TBS24X20WH	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	WHITE
TBS32X10WH	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	WHITE
TBS48X10WH	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	WHITE
TBS64X10WH	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	WHITE
TBS95X10WH	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	WHITE
TBS127X10WH	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	WHITE
TBS190X5WH	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	WHITE
TBS254X5WH	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	WHITE
TBS16X20BU	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLUE
TBS24X20BU	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLUE
TBS32X10BU	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLUE
TBS48X10BU	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLUE
TBS64X10BU	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLUE
TBS95X10BU	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLUE
TBS127X10BU	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLUE
TBS190X5BU	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLUE
TBS254X5BU	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLUE

		before shrinking	after shrinking		
Type	Reel Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour
TBS16X20GY	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREY
TBS24X20GY	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREY
TBS32X10GY	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREY
TBS48X10GY	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREY
TBS64X10GY	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREY
TBS95X10GY	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREY
TBS127X10GY	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREY
TBS190X5GY	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREY
TBS254X5GY	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREY
TBS16X20BR	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BROWN
TBS24X20BR	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BROWN
TBS32X10BR	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BROWN
TBS48X10BR	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BROWN
TBS64X10BR	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BROWN
TBS95X10BR	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BROWN
TBS127X10BR	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BROWN
TBS190X5BR	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BROWN
TBS254X5BR	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BROWN
TBS16X20Y/G	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW/GREEN
TBS24X20Y/G	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW/GREEN
TBS32X10Y/G	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW/GREEN
TBS48X10Y/G	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW/GREEN
TBS64X10Y/G	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW/GREEN
TBS95X10Y/G	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW/GREEN
TBS127X10Y/G	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW/GREEN
TBS190X5Y/G	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW/GREEN
TBS254X5Y/G	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW/GREEN

PET EN 50393 DIN VDE0291

Shells

Manufactured from transparent synthetic material which allows a visual check of the connections before and after casting.
The halves of the shell are joined by snap closures which avoid further fixing or sealing.

Shells are left on after casting to provide additional protection against mechanical abrasion, chemical agents and severe weather conditions.

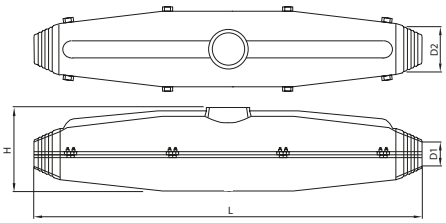


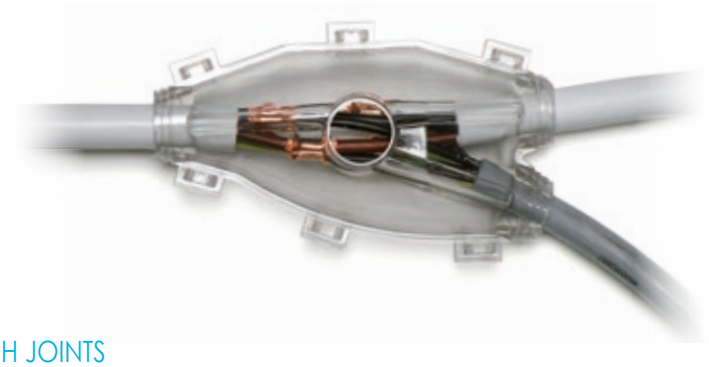


STRAIGHT JOINTS

Type	Dimensions mm				Dimensions Cable	
	L	H	D1(1)	D2(1)	Cable Diameter mm	Indicative Cable Section (2) mm²
N11	200	50	8	26	8 - 25	4C x 1,5 ÷ 10
N12	260	67	16	32	16 - 31	4C x 10 ÷ 25
N13	360	75	21	38	21 - 36	4C x 35 ÷ 50
N14	400	100	26	41	26 - 39	4C x 50 ÷ 70
N15	530	130	35	56	35 - 54	4C x 95 ÷ 150
N16	700	150	47	74	45 - 72	4C x 185 ÷ 300

(1) Internal dimension of the shell
(2) Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV

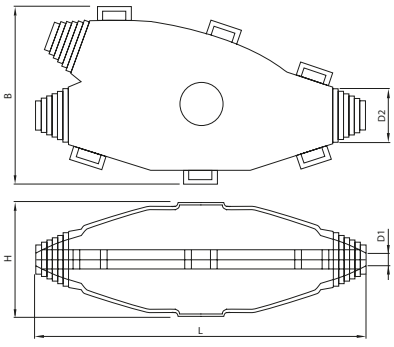




BRANCH JOINTS

Type	Dimensions mm					Dimensions Cable		
	L	H	B	D1(1)	D2(1)	Cable Diameter mm	Indicative Cable Section (2) mm²	
							Passante	Derivato
NY00	150	47	70	11	20	11 - 20	4C x 1,5 ÷ 2,5	4C x 1,5
NY0	175	60	94	6	22	6 - 21	4C x 4 ÷ 10	4C x 4
NY1	225	75	110	9	26	9 - 24	4C x 6 ÷ 25	4C x 16

(1) Internal dimension of the shell
(2) Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV



CAST RESIN JOINTS

cast resin, low voltage through joints

Cast resin technology

PUR-cast resin technology was introduced to seal and protect power, signal and telephone cable joints.
This new generation of two component cast resin has been developed for the most demanding environments and circumstances.

CEMBRE cast resin joints meet the requirements of EN50393 and DIN VDE 57291-2 (VDE0291).
Quick setting properties in humid or even cold conditions make it a fast and reliable solution.

No external measuring or mixing is required as this takes place within an Aluminium foil pouch, avoiding spillage and errors during installation.
Unmixed resin components have a 48 month shelf-life even in the most difficult storage conditions.

Shells are made of durable PET resulting in good hydrophobic properties and excellent impact resistance, while good adhesion to PVC and metals assures a watertight seal.

Technical characteristic	Test result	Requirement of DIN VDE 0291
Pot life @		
5°C	35 min	
23°C	20 min	product conforms ± 30%
35°C	15 min	
Reactant open cup flash point	> 200 °C	> 55
Tensile strength	≥ 8.0 Mpa	≥ 5.0
Hot aging	- 5 Shore A	- 7
Adhesive	> 1500 CP. S	-
Elongation at break	≥ 100%	≥ 50%
Gel time for 300 ml @	23 °C	
Pouch >1000 ml	26 min	product conforms ± 10%
Pouch <1000 ml	17 min	product conforms ± 10%
Max. reaction temp.	60 °C / 333 K	product conforms ± 10%
Total vol. variability when hardening	6 %	max. 6.5 %
Cast resin component open cup flash point	> 200 °C	> 100
Density	1.07 g / cm3	-
Impact strength	> 10 kJ / m2	> 10 kJ / m2
Hardness	75 Shore A	min. 20 Shore D
Expansion coefficient in temp. range 20-50°C	5.9 x 10-4 K-1	product conforms ± 15%
Thermal conductivity	0.2W x m-1 x K-1	product conforms ± 20%
Flammability	Class II c	acc. to DIN VDE 0304, part 3
Water absorption 42 days@50°C	360 mg	max. 400 mg
Electrolytic corrosion	A1	-
Voltage test @		no breakdown @ test voltage
23°C	> 20 kV	> 20 kV
80°C	> 10 kV	> 20 kV
Dielectric dissipation factor @		
23°C and 50 Hz	0.08	max. 0.1
23°C and 1k Hz	0.05	-
Relative permittivity		
@ 23°C and 50 Hz	5	< 6
@ 23°C and 1k Hz	5.1	-
Tracking resistance	KA 3c	min KA 3c
After 28 days of immersion in 90°C water		
Tensile strength	8.2N/mm^2	≥ 65% of initial value
Elongation at break	60%	≥ 65% of initial value
Hardness	47 Shore	≥ 80% of initial value

CABLE GLANDS AND ACCESSORIES



symbol description

cable glands and accessories

Polyamide PA6.6 body

Polyamide PA6 body

Neoprene material

Polystyrene body

Brass body

Protected by Nikel plated to avoid oxidation

Stainless steel body

Galvanized Steel body

Nitrile-butadiene material

Polyvinylchloride material

EPDM rubber material

ABS material

Operating temperature range

Degree of protection

V2 UL94 self-extinguishing class

VDE marking

ATEX marking

USL-CNL marking valid in USA & CANADA

USR-CNR marking valid in USA & CANADA

NEMA marking

CE marking

UKCA marking

Meets the requirements for fire testing of materials and components for trains EN 45545-2:2015

Halogen Free



MAXIblock®



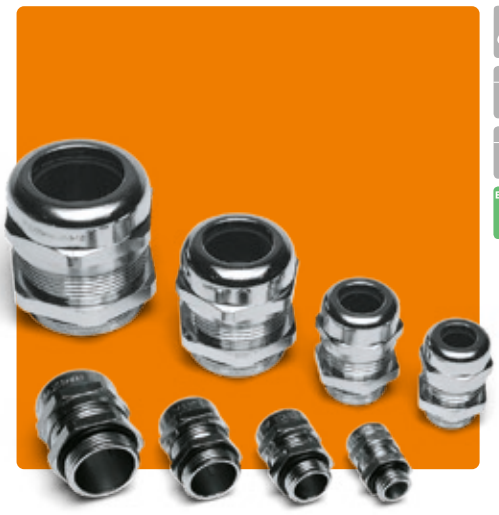
POLYAMIDE CABLE GLANDS
WITH PROTECTION IP 68

spiralblock®



POLYAMIDE CABLE GLANDS
WITH PROTECTION IP 68

MAXIbrass®



NICKEL PLATED BRASS CABLE GLANDS
WITH PROTECTION IP 68

MAXIinox



STAINLESS STEEL CABLE GLANDS
WITH PROTECTION IP 68

1900

MAXIBLOCK CABLE GLANDS

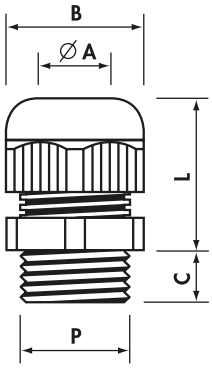
Polyamide PA6.6



MAXIblock®

PA 6.6 | IP68 | IP66 | V2 UL94 | -40°C +100°C | DVE | c UL us File no. E220310 | c UL us File no. E220310 | NEMA 6P | NEMA 4X | NEMA 12 | NEMA 1 | CE | UKCA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from M32 to M63
Protection: IP 68; IP 66
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



standard

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900.M12	M12x1,5	12,2	3,5- 7	15	8	18-22	100
1900.M16	M16x1,5	16,2	5 -10	19	8	22-27	100
1900.M20	M20x1,5	20,5	7 -13	25	9	24-30	100
1900.M25	M25x1,5	25,4	10 -17	30	10	28-39	50
1900.M32	M32x1,5	32,5	13 -21	36	10	33-44	25
1900.M40	M40x1,5	40,5	19 -28	46	10	36-45	15
1900.M50	M50x1,5	50,5	27 -35	55	12	43-52	10
1900.M63	M63x1,5	64,0	34 -45	66	12	45-55	5

Add to Ref: N for Black, G for Dark Grey

extended cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1940.M20	M20x1,5	20,5	10 **-14**	27	10	26-31	50
1940.M25	M25x1,5	25,5	13 **-18**	33	11	30-35	50
1940.M32	M32x1,5	32,5	20 **-25**	42	12	33-39	25
1940E.M40	M40x1,5	40,5	22 **-32**	53	14	42-49	10
1941E.M40	M40x1,5	40,5	22 **-32**	53	18	42-49	10
1940.M40	M40x1,5	40,5	26 **-34**	53	14	42-49	10
1941.M40	M40x1,5	40,5	26 **-34**	53	18	42-49	10
1940.M50	M50x1,5	50,5	30 **-38**	60	14	42-50	5
1940E.M50	M50x1,5	50,5	35 **-41**	66	14	45-55	5
1940.M63	M63x1,5	64,0	45 **-52**	75	15	52-60	4

Add to Ref: N for Black

Comparative table of clamping range of plastic cable glands available on page. 396

Technical data pages 394 to 400

MAXIBLOCK CABLE GLANDS

1900

Polyamide PA6.6

MAXIblock®



reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1910.M12	M12x1,5	12,2	2- 5	15	8	18-22	100
1910.M16	M16x1,5	16,2	3- 7	19	8	22-27	100
1910.M20	M20x1,5	20,5	5-10	25	9	24-30	100
1910.M25	M25x1,5	25,4	7-13	30	10	28-39	50
1910.M32	M32x1,5	32,5	8-14	36	10	33-44	25
1910.M40	M40x1,5	40,5	15-23	46	10	36-45	15
1910.M50	M50x1,5	50,5	20-29	55	12	43-52	10
1910.M63	M63x1,5	64,0	27-39	66	12	45-55	5

Add to Ref: N for Black, G for Dark Grey

extended thread

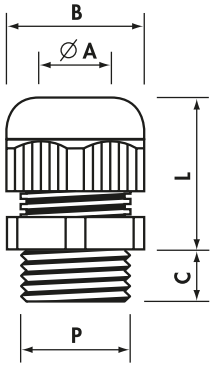
Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1901.M12	M12x1,5	12,2	3,5- 7	15	15	18-22	100
1901.M16	M16x1,5	16,2	5 -10	19	15	22-27	100
1901.M20	M20x1,5	20,5	7 -13	25	15	24-30	50
1901.M25	M25x1,5	25,4	10 -17	30	15	30-41	50
1901.M32	M32x1,5	32,5	13 -21	36	15	33-44	25
1901.M40	M40x1,5	40,5	19 -28	46	18	36-45	15
1901.M50	M50x1,5	50,5	27 -35	55	18	43-52	10
1901.M63	M63x1,5	64,0	34 -45	66	18	45-55	5

Add to Ref: N for Black, G for Dark Grey



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from M32 to M63
Protection: IP 68; IP 66
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



Technical data pages 394 to 400

CEMBRE

1900

MAXIBLOCK CABLE GLANDS

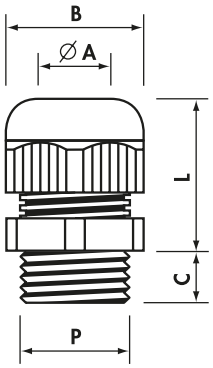
Polyamide PA6.6

MAXIblock®



PA 6.6 | IP68 | IP66 | V2 UL94 | -40°C +100°C | c UL us File no. E220310 | c UL us File no. E220310 | NEMA 6P | NEMA 4X | NEMA 12 | NEMA 1 | CE | UKCA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from Pg21 to Pg48
Protection: IP 68; IP 66
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



standard

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900.07	Pg 7	12,7	3,5- 7	15	8	18-22	100
1900.09	Pg 9	15,5	5 - 8	19	8	22-26	100
1900.11	Pg11	18,8	5 -10	22	8	23-28	100
1900.13	Pg13,5	20,5	7 -12	24	9	24-29	100
1900.16	Pg16	22,6	10 -14	27	10	26-31	50
1900.21	Pg21	28,5	13 -18	33	12	30-35	50
1900.29	Pg29	37,2	18 -25	42	12	33-39	25
1900.36	Pg36	47,2	20 -32	53	14	42-49	10
1900.42	Pg42	54,2	28 -38	60	14	42-50	5
1900.48	Pg48	60,0	37 -45	66	15	45-55	5

Add to Ref: N for Black, G for Dark Grey

reduced cable entry

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1910.07	Pg 7	12,7	2- 5	15	8	18-22	100
1910.09♦	Pg 9	15,5	2- 6	19	8	22-26	100
1910.11	Pg11	18,8	4- 7	22	8	23-28	100
1910.13	Pg13,5	20,5	5-10	24	9	24-29	100
1910.16♦	Pg16	22,6	6-12	27	10	26-31	50
1910.21	Pg21	28,5	9-15	33	12	30-35	50
1910.29♦	Pg29	37,2	12-20	42	12	33-39	25
1910.36	Pg36	47,2	18-26	53	14	42-49	10
1910.42	Pg42	54,2	25-31	60	14	42-50	5
1910.48♦	Pg48	60,0	27-39	66	15	45-55	5

Add to Ref: N for Black

♦Not UL approved

Technical data pages 394 to 400

MAXIBLOCK CABLE GLANDS

1900

Polyamide PA6.6

MAXIblock®



extended thread

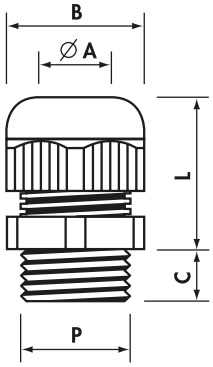
Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1901.07	Pg 7	12,7	3,5- 7	15	15	18-22	100
1901.09	Pg 9	15,5	5 - 8	19	15	22-26	100
1901.11	Pg11	18,8	5 -10	22	15	23-28	100
1901.13	Pg13,5	20,5	7 -12	24	15	24-29	100
1901.16	Pg16	22,6	10 -14	27	15	26-31	50
1901.21	Pg21	28,5	13 -18	33	15	30-35	50
1901.29	Pg29	37,2	18 -25	42	15	33-39	25
1901.36	Pg36	47,2	20 -32	53	18	42-49	10
1901.42	Pg42	54,2	28 -38	60	18	42-50	5
1901.48	Pg48	60,0	37 -45	66	18	45-55	5

Add to Ref: N for Black

PA 6.6 · IP68 · IP66 · V2 UL94 · -40°C +100°C · c UL us File no. E220310 · c UL us File no. E220310 · NEMA 6P · NEMA 4X · NEMA 12 · NEMA 1 · CE · UK CA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from Pg21 to Pg48
Protection: IP 68; IP 66
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



MAXIBLOCK CABLE GLANDS

1900

Polyamide PA6.6



BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900.14	G1/4"	13,5	3- 6,5	15	8	18-22	100
1900.38	G3/8"	17,0	4- 8	19	8	22-26	100
1900.12	G1/2"	21,5	7-12	24	10	24-29	100
1900.34	G3/4"	27,0	13-18	33	12	30-35	50

Add to Ref: N for Black

PA 6.6 · IP68 · IP66 · V2 UL94 · -40°C +100°C · c UL us File no. E220310 · c UL us File no. E220310 · NEMA 6P · NEMA 4X · NEMA 12 · NEMA 1 · CE · UK CA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
Protection: IP 68; IP 66
Colour: RAL 7035 light grey,
RAL 9005 black

Technical data pages 394 to 400

1900/X

MAXIBLOCK CABLE GLANDS

Polyamide PA6.6



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®

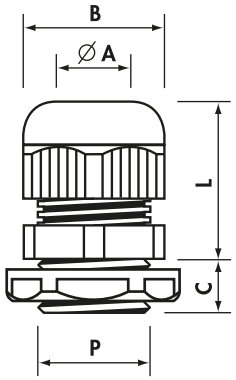
External additional sealing ring
for sizes from M32 to M63 and
for sizes from Pg21 to Pg48
Protection: IP 68; IP 66
Colour: RAL 7035 light grey

MAXIblock®

standard, factory fitted with locknuts with collar

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1900.M12/X	M12x1,5	12,2	3,5- 7	15	8	18-22	100/10
1900.M16/X	M16x1,5	16,2	5 -10	19	8	22-27	50/10
1900.M20/X	M20x1,5	20,5	7 -13	25	9	24-30	50/10
1900.M25/X	M25x1,5	25,4	10 -17	30	10	28-39	30/10
1900.M32/X	M32x1,5	32,5	13 -21	36	10	33-44	20/10
1900.M40/X	M40x1,5	40,5	19 -28	46	10	36-45	10/5
1900.M50/X	M50x1,5	50,5	27 -35	55	12	43-52	5/5
1900.M63/X	M63x1,5	64,0	34 -45	66	12	45-55	5/5



Pg thread DIN 40 430

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1900.07/X	Pg 7	12,7	3,5- 7	15	8	18-22	100/10
1900.09/X	Pg 9	15,5	5 - 8	19	8	22-26	100/10
1900.11/X	Pg11	18,8	5 -10	22	8	23-28	50/10
1900.13/X	Pg13,5	20,5	7 -12	24	9	24-29	50/10
1900.16/X	Pg16	22,6	10 -14	27	10	26-31	30/10
1900.21/X	Pg21	28,5	13 -18	33	12	30-35	20/10
1900.29/X	Pg29	37,2	18 -25	42	12	33-39	20/10
1900.36/X	Pg36	47,2	20 -32	53	14	42-49	10/5
1900.42/X	Pg42	54,2	28 -38	60	14	42-50	5/5
1900.48/X	Pg48	60,0	37 -45	66	15	45-55	5/5

1951R.M25N

MAXIBLOCK CABLE GLANDS

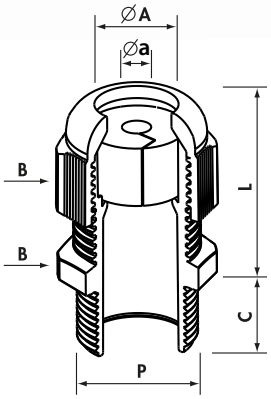
Polyamide PA6.6



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)

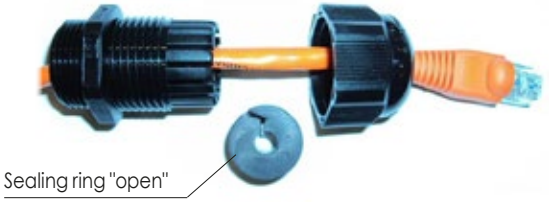
Sealing ring "open": NEOPRENE®
Protection: IP 68
Colour: RAL 9005 black

MAXIblock®



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	Ø a min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1901R.M25N	M25x1,5	25,4	17,2	6	30	15	30-41	50



Technical data pages 394 to 400

MAXIBLOCK CABLE GLANDS

1900DP

Polyamide PA6.6

MAXIblock®



PA 6.6 | IP68 | V2 UL94 | -40°C +100°C | CE | UKCA | EN 45545-2

standard, factory fitted with Polyethylene foam dustproof discs

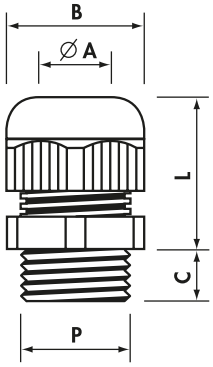
Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900DP.M12	M12x1,5	12,2	3,5- 7	15	8	18-22	*100*
1900DP.M16	M16x1,5	16,2	5 -10	19	8	22-27	*100*
1900DP.M20	M20x1,5	20,5	7 -13	25	9	24-30	*100*
1900DP.M25	M25x1,5	25,4	10 -17	30	10	28-39	*50*
1900DP.M32	M32x1,5	32,5	13 -21	36	10	33-44	*25*
1900DP.M40	M40x1,5	40,5	19 -28	46	10	36-45	*15*
1900DP.M50	M50x1,5	50,5	27 -35	55	12	43-52	*10*
1900DP.M63	M63x1,5	64,0	34 -45	66	12	45-55	*5*

Pg thread DIN 40 430

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900DP.07	Pg 7	12,7	3,5- 7	15	8	18-22	*100*
1900DP.09	Pg 9	15,5	5 - 8	19	8	22-26	*100*
1900DP.11	Pg11	18,8	5 -10	22	8	23-28	*100*
1900DP.13	Pg13,5	20,5	7 -12	24	9	24-29	*100*
1900DP.16	Pg16	22,6	10 -14	27	10	26-31	*50*
1900DP.21	Pg21	28,5	13 -18	33	12	30-35	*50*
1900DP.29	Pg29	37,2	18 -25	42	12	33-39	*25*
1900DP.36	Pg36	47,2	20 -32	53	14	42-49	*10*
1900DP.42	Pg42	54,2	28 -38	60	14	42-50	*5*
1900DP.48	Pg48	60,0	37 -45	66	15	45-55	*5*

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring for sizes from M32 to M63 and for sizes from Pg21 to Pg48
Protection: IP 68
Colour: RAL 7035 light grey
Dustproof discs: 2 mm thick Polyethylene foam



extended cable entry
factory fitted with Polyethylene foam dustproof discs

NEW

Passo METRICO M 1,5 CEI EN 60423 CEI EN 62444

Tipo Grigio Chiaro	P	Foro Fissaggio (mm)	Ø A mini-max (mm)	B Chiave (mm)	C (mm)	L min-max (mm)	Imballo *standard/minimo*
1940SDP.M20	M20x1,5	20,5	6 **-12**	27	10	26-31	*50*
1940DP.M25	M25x1,5	25,5	13 **-18**	33	11	30-35	*50*
1940DP.M32	M32x1,5	32,5	20 **-25**	42	12	33-39	*25*
1940EDP.M40	M40x1,5	40,5	22 **-32**	53	14	42-49	*10*
1940DP.M50	M50x1,5	50,5	30 **-38**	60	14	42-50	*5*

Technical data pages 394 to 400

CEMBRE

1500

SPIRALBLOCK CABLE GLANDS

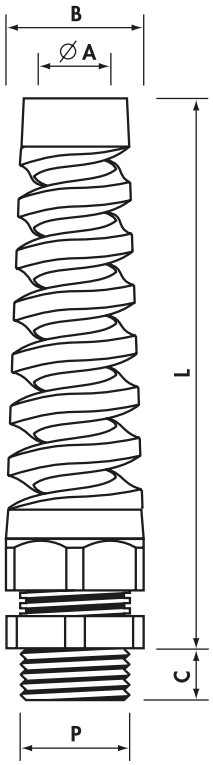
Polyamide PA6.6

spiralblock®



PA 6.6 | IP68 | V2 UL94 | -40°C +100°C | c UL us File no. E220310 | c UL us File no. E220310 | CE | UK CA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes M32 and Pg21
Protection: IP 68
Colour: RAL 7035 light grey,
RAL 9005 black



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity
1500.M12	M12x1,5	12,2	3,5- 7	15	8	57	100
1500.M16	M16x1,5	16,2	5 -10	19	8	79	50
1500.M20	M20x1,5	20,5	7 -13	25	9	90	25
1500.M25	M25x1,5	25,4	10 -17	30	10	120	20
1500.M32	M32x1,5	32,5	13 -21	36	10	140	10

Add to Ref: N for Black

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity
1500.07	Pg 7	12,7	3,5- 7	15	8	57	100
1500.09	Pg 9	15,5	5 - 8	19	8	68	100
1500.11	Pg11	18,8	5 -10	22	8	80	50
1500.13	Pg13,5	20,5	7 -12	24	10	90	50
1500.16	Pg16	22,6	10 -14	27	10	100	25
1500.21	Pg21	28,5	13 -18	33	12	112	20

Add to Ref: N for Black

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity
1500.14	G1/4"	13,5	3- 6,5	15	8	57	100
1500.38	G3/8"	17,0	4- 8	19	9	68	100
1500.12	G1/2"	21,5	7-12	24	10	90	50
1500.34	G3/4"	27,0	13-18	33	12	112	20

Add to Ref: N for Black

Technical data pages 394 to 400

Polyamide PA6.6

MAXIblock®

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4900.M12	M12x1,5	12,2	3,5- 6,5	15	8	18-22	100
4900.M16	M16x1,5	16,2	6,5-10	19	8	22-27	100
4900.M20	M20x1,5	20,5	9 -13	25	9	24-30	100
4900.M25	M25x1,5	25,4	11 -17	30	10	28-39	50
4900.M32	M32x1,5	32,5	16 -21	36	10	33-44	25
4900.M40	M40x1,5	40,5	21 -28	46	10	36-45	15
4900.M50	M50x1,5	50,5	27 -35	55	12	43-52	10
4900.M63	M63x1,5	64,0	35 -42	66	12	45-55	5

extended thread

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4901.M12	M12x1,5	12,2	3,5- 6,5	15	15	18-22	100
4901.M16	M16x1,5	16,2	6,5-10	19	15	22-27	100
4901.M20	M20x1,5	20,5	9 -13	25	15	24-30	50
4901.M25	M25x1,5	25,4	11 -17	30	15	30-41	50
4901.M32	M32x1,5	32,5	16 -21	36	15	33-44	25
4901.M40	M40x1,5	40,5	21 -28	46	18	36-45	15
4901.M50	M50x1,5	50,5	27 -35	55	18	43-52	10
4901.M63	M63x1,5	64,0	35 -42	66	18	45-55	5

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4900.07	Pg 7	12,7	3,5- 6,5	15	8	18-22	100
4900.09	Pg 9	15,5	6,5- 8	19	8	22-26	100
4900.11	Pg11	18,8	8 -10	22	8	23-28	100
4900.13	Pg13,5	20,5	9 -12	24	9	24-29	100
4900.16	Pg16	22,6	10 -14	27	10	26-31	50
4900.21	Pg21	28,5	14 -18	33	12	30-35	50
4900.29	Pg29	37,2	18 -22	42	12	33-39	25
4900.36	Pg36	47,2	22 -32	53	14	42-49	10
4900.42	Pg42	54,2	28 -38	60	14	42-50	5
4900.48	Pg48	60,0	38 -45	66	15	45-55	5

extended thread

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4901.07	Pg 7	12,7	3,5- 6,5	15	15	18-22	100
4901.09	Pg 9	15,5	6,5- 8	19	15	22-26	100
4901.11	Pg11	18,8	8 -10	22	15	23-28	100
4901.13	Pg13,5	20,5	9 -12	24	15	24-29	100
4901.16	Pg16	22,6	10 -14	27	15	26-31	50
4901.21	Pg21	28,5	14 -18	33	15	30-35	50
4901.29	Pg29	37,2	18 -22	42	15	33-39	25
4901.36	Pg36	47,2	22 -32	53	18	42-49	10
4901.42	Pg42	54,2	28 -38	60	18	42-50	5
4901.48	Pg48	60,0	38 -45	66	18	45-55	5

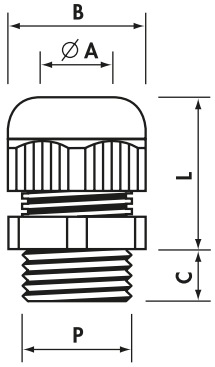


UKCA 0891 CE 0051 Ex II 2 GD

Certificate No IMQ 10 ATEX 028 X
Certificate No EMA 21 UKEX 0084 X

PA 6.6 · IP65 · V2 UL94 · -20°C +75°C · Ex · CE · UKCA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Safety level:
Ex eb IIC Gb/Ex tb IIIC Db
according to:
EN 60079-0
EN 60079-7
EN 60079-7/A1
EN 60079-31
Areas of utilisation: 1 & 2, 21 & 22
The certification is maintained with and without the aid of the 1143-1142 series locknuts
Temperature range:
–20°C to +75°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring for sizes from M32 to M63 and for sizes from Pg21 to Pg48
Protection: IP 65
Colour: RAL 7035 light grey



Technical data pages 394 to 400

1700
1400

COMPRESSION CABLE GLANDS

Polyamide PA6

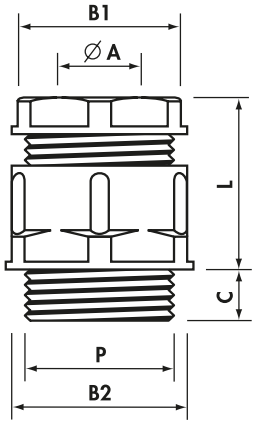


PA 6 V0 UL94

PA 6.6 V2 UL94 **

IP54 -20°C +90°C

Material: POLYAMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–20°C to +90°C (dynamic)
Sealing ring: PVC 50 sh A
Protection: IP 54
Colour: RAL 7035 light grey,
RAL 9005 black



Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1709	Pg 7	12,7	5,5- 7	15	16	8	16-20	300/100
*1700	Pg 9	15,5	6,5- 8,5	17	20	8	19-22	200/100
*1701	Pg11	18,8	8 -10	19	22	8	21-25	100/100
*1702**	Pg13,5	20,5	8 -11	21	24	9	22-26	100/100
1703	Pg16	22,6	11 -14	23	27	10	24-33	50/50
1704	Pg21	28,5	14,5-18	30	33	11	25-32	50/25
1705	Pg29	37,2	19 -26	40	42	11	27-32	20/10
1706	Pg36	47,2	30 -34	50	53	14	33-42	10/10
1707	Pg42	54,2	30 -38	55	60	13	37-48	5/5
1708	Pg48	60,0	38 -44	60	65	14,5	37-48	5/5

***Add to Ref: N for Black**

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1400	G1/4"	13,5	5,5- 7	15	16	8	16-20	300/100
*1401	G3/8"	17,0	6,5- 8,5	17	20	8	19-22	200/100
*1401B	G3/8"	17,0	8 -10	19	22	8	18-24	100/100
*1402**	G1/2"	21,5	8 -11	21	24	9	22-26	100/100
1403	G5/8"	23,5	11 -14	23	27	10	24-33	50/50
1404	G3/4"	27,0	14,5-18	30	33	11	25-32	50/25
1405	G1"	34,0	17 -22	34	38	11,5	27-35	20/10
1407	G1"1/2	48,0	30 -34	50	53	14	33-42	10/10
1408	G2"	60,0	38 -44	60	65	14,5	37-48	5/5

***Add to Ref: N for Black**

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity
1730M20**	M20x1,5	20,5	8-11	21	24	9	22-26	100

Add to Ref: N for Black

COMPRESSION CABLE GLANDS

Polyamide PA6

1700T



PA 6 | V0 UL94

PA 6.6 | V2 UL94 **

IP54 | -20°C +90°C

Material: POLYAMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–20°C to +90°C (dynamic)
Protection: IP 54
Colour: RAL 7035 light grey,
RAL 9005 black

special Internal blanking disc: PVC 50 sh

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1700T	Pg 9	15,5	6,5- 8,5	17	20	8	19-22	200/100
*1701T	Pg11	18,8	8 -10	19	22	8	21-25	100/100
1702T**	Pg13,5	20,5	8 -11	21	24	9	22-26	100/100

***Add to Ref: N for Black**

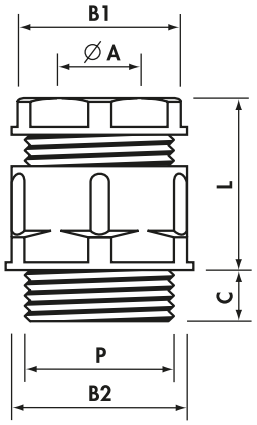
reduced cable entry

Sealing ring: CHLOROPRENE, concentric, multi-sector

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity
1702CONC**	Pg13,5	20,5	5,5-13	21	24	9	22-26	100

Add to Ref: N for Black



CEMBRE

2900

MAXIBRASS CABLE GLANDS

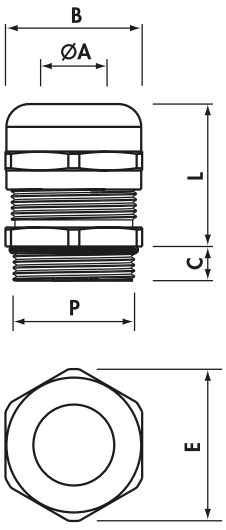
Nickel Plated Brass

MAXIbrass®



BRASS | 3µm NICKEL PLATED | IP68 | IP66 | -40°C +100°C | DVE | c UL us File no. E220310 | c UL us File no. E220310 | NEMA 6P | NEMA 4X | NEMA 12 | NEMA 1 | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68; IP 66
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



standard

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900.M12N	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	*100*
2900.M16N	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	*100*
2900.M20N	M20x1,5	20,5	7 -13	24	27	8,0	20-27	*50*
2900.M25N	M25x1,5	25,4	10 -17	29	32	8,0	24-30	*50*
2900.M32N	M32x1,5	32,5	11 -21	36	39	9,0	27-34	*25*
2900.M40N	M40x1,5	40,5	19 -28	45	50	9,0	34-42	*10*
2900.M50N	M50x1,5	50,5	26 -35	54	60	10,0	35-43	*8*
2900.M63N	M63x1,5	64,0	34 -45	67	73	15,0	40-52	*5*
2900.M75N	M75x1,5	76,0	56 -63	80	88	18,0	35-43	*3/1*

extended cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2940.M12N	M12x1,5	12,2	5 - **8**	17	19	6,5	17-23	*100*
2940.M16N	M16x1,5	16,2	7 -**12**	22	25	7,0	20-26	*50*
2940.M20N	M20x1,5	20,5	10 -**16**	29	32	10,0	24-30	*50*
2940.M25N	M25x1,5	25,4	13 -**21**	36	39	11,0	27-34	*25*
2940.M32N	M32x1,5	32,5	18 -**25**	40	43	12,0	30-37	*25*
2940.M40N	M40x1,5	40,5	25 -**32**	50	54	13,0	38-48	*10*
2940.M50N	M50x1,5	50,5	30 -**38**	57	61	13,0	39-48	*5*
2940E.M50N	M50x1,5	50,5	35 -**45**	67	73	13,0	40-52	*5*
2940.M63N	M63x1,5	64,0	44 -**55**	75	83	15,0	40-53	*4*

Comparative table of clamping range of brass cable glands available on page. 397

Technical data pages 394 to 400

MAXIBRASS CABLE GLANDS

Nickel Plated Brass

MAXIbrass®



reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2910.M12N	M12x1,5	12,2	1 - 5	16	18	6,5	16-20	*100*
2910.M16N	M16x1,5	16,2	2,5- 7	20	23	7,0	20-25	*100*
2910.M20N	M20x1,5	20,5	5 -10	24	27	8,0	20-27	*50*
2910.M25N	M25x1,5	25,4	6 -13	29	32	8,0	24-30	*50*
2910.M32N	M32x1,5	32,5	7 -14	36	39	9,0	27-34	*25*
2910.M40N	M40x1,5	40,5	13 -23	45	50	9,0	34-42	*10*
2910.M50N	M50x1,5	50,5	20 -29	54	60	10,0	35-43	*8*
2910.M63N	M63x1,5	64,0	27 -39	67	73	15,0	40-52	*5*
2910.M75N	M75x1,5	76,0	49 -57	80	88	18,0	35-43	*3/1*
2910E.M75N	M75x1,5	76,0	45 -51	80	88	18,0	35-43	*3/1*

extended thread

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2901.M12N	M12x1,5	12,2	3 - 7	16	18	12	16-20	*100*
2901.M16N	M16x1,5	16,2	4,5-10	20	23	12	20-25	*100*
2901.M20N	M20x1,5	20,5	7 -13	24	27	12	20-27	*50*
2901.M25N	M25x1,5	25,4	10 -17	29	32	12	24-30	*50*
2901.M32N	M32x1,5	32,5	11 -21	36	39	15	27-34	*25*
2901.M40N	M40x1,5	40,5	19 -28	45	50	15	34-42	*10*
2901.M50N	M50x1,5	50,5	26 -35	54	60	15	35-43	*8*

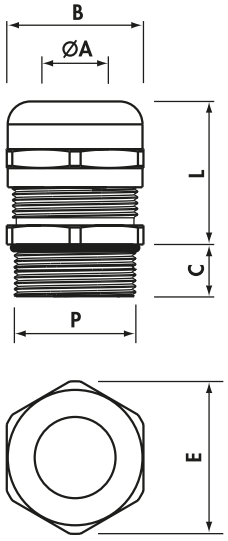
extended thread and reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2911.M12N	M12x1,5	12,2	1 - 5	16	18	12	16-20	*100*
2911.M16N	M16x1,5	16,2	2,5- 7	20	23	12	20-25	*100*
2911.M20N	M20x1,5	20,5	5 -10	24	27	12	20-27	*50*
2911.M25N	M25x1,5	25,4	6 -13	29	32	12	24-30	*50*
2911.M32N	M32x1,5	32,5	7 -14	36	39	15	27-34	*25*
2911.M40N	M40x1,5	40,5	13 -23	45	50	15	34-42	*10*
2911.M50N	M50x1,5	50,5	20 -29	54	60	15	35-43	*8*



Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68; IP 66
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



Technical data pages 394 to 400

CEMBRE

2900

MAXIBRASS CABLE GLANDS

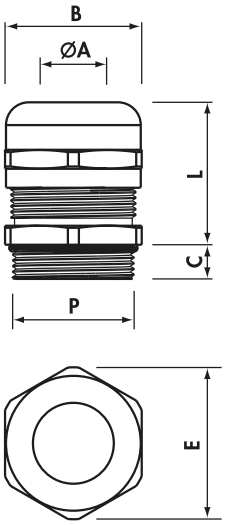
Nickel Plated Brass

MAXIbrass®





Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68; IP 66
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



standard

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900.07N	Pg 7	12,7	3 - 7	16	18	5,0	16-20	100
2900.09N	Pg 9	15,5	4 - 8	17	19	6,0	17-23	100
2900.11N	Pg11	18,8	4,5-10	20	23	6,0	20-25	100
2900.13N	Pg13,5	20,5	5 -12	22	25	6,5	20-26	50
2900.16N	Pg16	22,6	7 -13	24	27	6,5	20-27	50
2900.21N	Pg21	28,5	10 -17	30	33	7,0	24-30	50
2900.29N	Pg29	37,2	17 -25	40	43	8,0	30-37	25
2900.36N	Pg36	47,2	20 -32	50	54	8,0	38-48	10
2900.42N	Pg42	54,2	28 -38	57	63	10,0	39-48	5
2900.48N	Pg48	60,0	34 -45	67	73	15,0	40-52	5

reduced cable entry

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2910.07N	Pg 7	12,7	1 - 5	16	18	5,0	16-20	100
2910.09N	Pg 9	15,5	2 - 6	17	19	6,0	17-23	100
2910.11N	Pg11	18,8	2,5- 7	20	23	6,0	20-25	100
2910.13N	Pg13,5	20,5	4 -10	22	25	6,5	20-26	50
2910.16N	Pg16	22,6	5 -10	24	27	6,5	20-27	50
2910.21N	Pg21	28,5	6 -13	30	33	7,0	24-30	50
2910.29N	Pg29	37,2	11 -20	40	43	8,0	30-37	25
2910.36N	Pg36	47,2	18 -26	50	54	8,0	38-48	10
2910.42N	Pg42	54,2	24 -31	57	63	10,0	39-48	5
2910.48N	Pg48	60,0	27 -39	67	73	15,0	40-52	5

extended thread

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2901.07N	Pg 7	12,7	3 - 7	16	18	12	16-20	100
2901.09N	Pg 9	15,5	4 - 8	17	19	12	17-23	100
2901.11N	Pg11	18,8	4,5-10	20	23	12	20-25	100
2901.13N	Pg13,5	20,5	5 -12	22	25	12	20-26	50
2901.16N	Pg16	22,6	7 -13	24	27	12	20-27	50
2901.21N	Pg21	28,5	10 -17	30	33	12	24-30	50
2901.29N	Pg29	37,2	17 -25	40	43	15	30-37	25
2901.36N	Pg36	47,2	20 -32	50	54	15	38-48	10
2901.42N	Pg42	54,2	28 -38	57	63	15	39-48	5

Technical data pages 394 to 400

MAXIBRASS CABLE GLANDS

2900

Nickel Plated Brass

MAXIbrass®



extended thread and reduced cable entry

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2911.07N	Pg 7	12,7	1 - 5	16	18	12	16-20	100
2911.09N	Pg 9	15,5	2 - 6	17	19	12	17-23	100
2911.11N	Pg11	18,8	2,5- 7	20	23	12	20-25	100
2911.13N	Pg13,5	20,5	4 -10	22	25	12	20-26	50
2911.16N	Pg16	22,6	5 -10	24	27	12	20-27	100
2911.21N	Pg21	28,5	6 -13	30	33	12	24-30	50
2911.29N	Pg29	37,2	11 -20	40	43	15	30-37	25
2911.36N	Pg36	47,2	18 -26	50	54	15	38-48	10
2911.42N	Pg42	54,2	24 -31	57	63	15	39-48	5

MAXIBRASS CABLE GLANDS

2900DP

Nickel Plated Brass



standard, factory fitted with Polyethylene foam dustproof discs

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900DP.M12N	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	100
2900DP.M16N	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	100
2900DP.M20N	M20x1,5	20,5	7 -13	24	27	8,0	20-27	50
2900DP.M25N	M25x1,5	25,4	10 -17	29	32	8,0	24-30	50
2900DP.M32N	M32x1,5	32,5	11 -21	36	39	9,0	27-34	25
2900DP.M40N	M40x1,5	40,5	19 -28	45	50	9,0	34-42	10
2900DP.M50N	M50x1,5	50,5	26 -35	54	60	10,0	35-43	8
2900DP.M63N	M63x1,5	64,0	34 -45	67	73	15,0	40-52	5

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900DP.07N	Pg 7	12,7	3 - 7	16	18	5,0	16-20	100
2900DP.09N	Pg 9	15,5	4 - 8	17	19	6,0	17-23	100
2900DP.11N	Pg11	18,8	4,5-10	20	23	6,0	20-25	100
2900DP.13N	Pg13,5	20,5	5 -12	22	25	6,5	20-26	50
2900DP.16N	Pg16	22,6	7 -13	24	27	6,5	20-27	50
2900DP.21N	Pg21	28,5	10 -17	30	33	7,0	24-30	50
2900DP.29N	Pg29	37,2	17 -25	40	43	8,0	30-37	25
2900DP.36N	Pg36	47,2	20 -32	50	54	8,0	38-48	10
2900DP.42N	Pg42	54,2	28 -38	57	63	10,0	39-48	5
2900DP.48N	Pg48	60,0	34 -45	67	73	15,0	40-52	5

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Dustproof discs: 2 mm thick Polyethylene foam
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)

Technical data pages 394 to 400

CEMBRE

5900

MAXIBRASS ATEX and UKEX CABLE GLANDS

Nickel Plated Brass



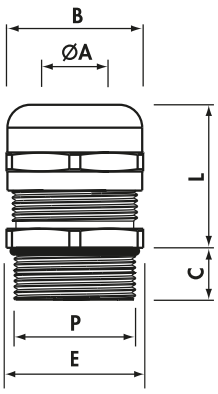
Certificate No IMQ 10 ATEX 028 X
Certificate No EMA 21 UKEX 0084 X

Safety level: Ex eb IIC Gb/Ex tb IIIC Db
according to: EN 60079-0
EN 60079-7
EN 60079-7/A1; EN 60079-31
Areas of utilisation: 1 & 2, 21 & 22

MAXIbrass®

BRASS | 3µm NICKEL PLATED | IP65 | -25°C +75°C | Ex | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Temperature range: -25°C to +75°C (dynamic)
Protection: IP 65
The certification is maintained with and without the aid of the 2033 series locknuts



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
5900.M12N	M12x1,5	12,2	3 - 6,5	16	18	6,5	16-20	100
5900.M16N	M16x1,5	16,2	6,5 -10	20	23	7,0	20-25	100
5900.M20N	M20x1,5	20,5	10 - 13	24	27	8,0	20-27	50
5900.M25N	M25x1,5	25,4	11 - 17	29	32	8,0	24-30	50
5900.M32N	M32x1,5	32,5	14 - 21	36	39	9,0	27-34	25
5900.M40N	M40x1,5	40,5	21 - 27	45	50	9,0	34-42	10
5900.M50N	M50x1,5	50,5	26 - 35	54	60	10,0	35-43	8
5900.M63N	M63x1,5	64,0	35 - 42	67	73	15,0	40-52	5

extended thread

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
5901.M12N	M12x1,5	12,2	3 - 6,5	16	18	12	16-20	100
5901.M16N	M16x1,5	16,2	6,5 - 10	20	23	12	20-25	100
5901.M20N	M20x1,5	20,5	10 - 13	24	27	12	20-27	50
5901.M25N	M25x1,5	25,4	11 - 17	29	32	12	24-30	50
5901.M32N	M32x1,5	32,5	14 - 21	36	39	12	27-34	25
5901.M40N	M40x1,5	40,5	21 - 27	45	50	12	34-42	10
5901.M50N	M50x1,5	50,5	26 - 35	54	60	12	35-43	8

20M3

EMC CABLE GLANDS

Nickel Plated Brass



BRASS | 3µm NICKEL PLATED | IP68 | -40°C +100°C | CE | UKCA | cULus File no. E220310

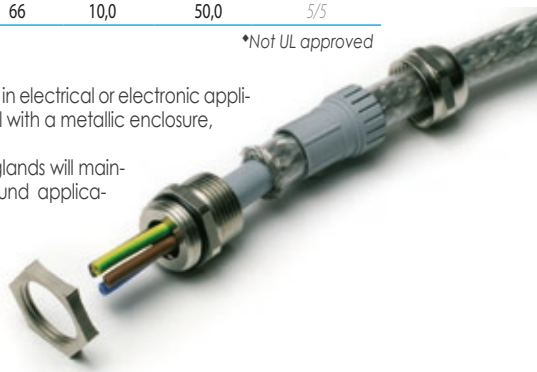
Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: Chloroprene (CR)
Cable grip insert: PA6.6
O-Ring: (NBR) (factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity Box/Bag
20M3M1261N♦	M12x1,5	12,2	3 - 6,5	14	5,0	22,0	300/100
20M3M1661N♦	M16x1,5	16,2	5,5 - 10	17	5,5	24,5	200/100
20M3M2061N	M20x1,5	20,5	8 - 13	22	6,0	27,0	100/50
20M3M2561N♦	M25x1,5	25,4	11 - 18	30	7,0	31,0	50/25
20M3M3261N♦	M32x1,5	32,5	15 - 21	34	8,0	33,0	30/10
20M3M4061N♦	M40x1,5	40,5	19 - 27	44	8,0	40,0	20/10
20M3M5061N♦	M50x1,5	50,5	26 - 35	55	9,0	48,0	10/5
20M3M6361N♦	M63x1,5	64,0	39 - 48	66	10,0	50,0	5/5

♦Not UL approved

EMC Cable glands and locknuts are designed to work together in electrical or electronic applications where a metallic cable shielding must be equipotential with a metallic enclosure, in accordance with the EMC directive.
Offering IP68 ingress protection at 5 bar pressure, EMC Cable glands will maintain shielding from electromagnetic disturbance in undergound applications.
EMC locknuts have serrated teeth to maintain electrical contact through paint or surface coatings, a feature which also enhances vibration resistance.



COMPRESSION CABLE GLANDS

Nickel Plated Brass

2003
2002
2001



BRASS | 3µm NICKEL PLATED | IP54 | -25°C +100°C

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Protection: IP 54

Sealing ring: RUBBER 55sh A

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

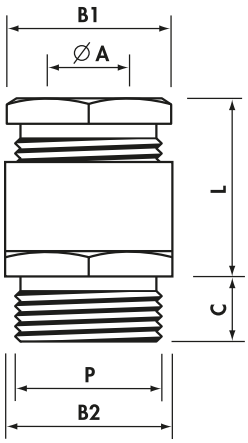
Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
2003M1221N	M12x1,5	12,2	4 - 6	13	14	5	13-16	500/100
2003M1621N	M16x1,5	16,2	8 -10	15	18	5	14-17	200/100
2003M2021N	M20x1,5	20,5	10 -12	20	22	6	16-19	150/50
2003M2521N	M25x1,5	25,4	17 -19	28	30	7	19-23	50/50
2003M3221N	M32x1,5	32,5	26 -28	37	39	8	21-25	100/50
2003M4021N	M40x1,5	40,5	33 -35	47	50	8	24-30	20/20
2003M5021N	M50x1,5	50,5	39 -41	54	57	9	28-34	10/5
2003M6321N	M63x1,5	64,0	43 -45	60	66/68	10	30-36	10/5

Sealing ring: RUBBER 55sh A

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
200200721N	Pg 7	12,7	5 - 7	13	14	5	13-16	400/100
200200921N	Pg 9	15,5	8 -10	15	17	6	14-17	300/100
200201121N	Pg11	18,8	8 -10	18	20	6	14-18	200/50
200201321N	Pg13,5	20,5	10 -12	20	22	6,5	16-19	100/50
200201621N	Pg16	22,6	12 -14	22	24	6,5	17-20	50/50
200202121N	Pg21	28,5	17 -19	28	30	7	19-23	50/50
200202921N	Pg29	37,2	26 -28	37	40	8	21-25	15/15
200203621N*	Pg36	47,2	33 -35	47	50	9	24-30	10/10
200204221N	Pg42	54,2	39 -41	54	57	10	28-34	10/10
200204821N*	Pg48	60,0	43 -45	60	64	10	36-45	10/10

*** Double sealing ring**



Sealing ring: PVC 50 sh A

BSP thread ISO 228/1

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
200101441N	G1/4"	13,5	5,5 - 7	13	15	6,5	14-17	400/100
207101441N	G1/4"	13,5	5,5 - 7	13	15**	6,5	14-17	400/100
200103841N	G3/8"	17,0	6,5 - 8,5	17	19	7,5	15-19	200/100
200101241N	G1/2"	21,5	8 -11	21	23	8	17-23	100/100
200105841N	G5/8"	23,5	11 -14	23	25	8,5	20-24	100/50
200103441N	G3/4"	27,0	14,5-17,5	27	29	9	20-26	50/50
200110041N	G1"	34,0	18 -22	34	36	10	23-28	25/25
200111841N	G1"1/8	38,0	21 -26	38	40	10,5	23-28	25/25
200111441N	G1"1/4	42,0	28 -32	42	45	11,5	25-31	20/20
200111241N	G1"1/2	48,0	32 -36	48	50	11,5	28-35	10/10
200120041N	G2"	60,0	38 -42	60	64	13,5	31-37	10/10
• 200121221N*	G2"1/2	76,0	44 -57	80	80	20	32-37	5/5
• 200130021N	G3"	89,0	67 -69	95	95	20	42-52	5/5

• Sealing ring: Chloroprene
*** Concentric sealing ring**
**** Cylindrical body without hexagonal key**

CEMBRE

7900
7900A

MAXIINOX CABLE GLANDS

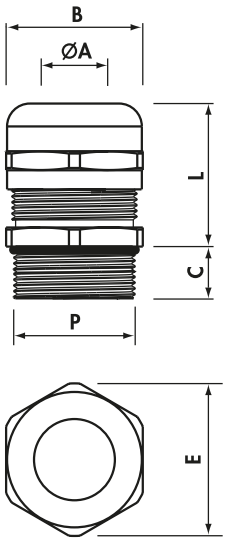
Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

MAXIinox



STAINLESS STEEL | IP68 | -40°C +100°C | CE | UKCA | EN 45545-2

Material:
STAINLESS STEEL AISI 303/316L
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A
(factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



Stainless Steel AISI 303

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Stainless Steel AISI 303	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900.M12	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	*90/30*
7900.M16	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	*120/30*
7900.M20	M20x1,5	20,5	7 -13	24	27	8,0	20-27	*75/25*
7900.M25	M25x1,5	25,4	10 -17	29	32	8,0	24-30	*40/20*
7900.M32	M32x1,5	32,5	11 -21	36	40	9,0	27-34	*15*
7900.M40	M40x1,5	40,5	19 -28	45	50	9,0	34-42	*15*
7900.M50	M50x1,5	50,5	26 -35	54	60	10,0	35-43	*10*
7900.M63	M63x1,5	64,0	34 -45	67	74	15,0	40-52	*5*

Stainless Steel AISI 316L

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Stainless Steel AISI 316L	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900A.M12	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	*60/20*
7900A.M16	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	*80/20*
7900A.M20	M20x1,5	20,5	7 -13	24	27	8,0	20-27	*60/20*
7900A.M25	M25x1,5	25,4	10 -17	29	32	8,0	24-30	*30/15*
7900A.M32	M32x1,5	32,5	11 -21	36	40	9,0	27-34	*12*
7900A.M40	M40x1,5	40,5	19 -28	45	50	9,0	34-42	*10*
7900A.M50	M50x1,5	50,5	26 -35	54	60	10,0	35-43	*7*
7900A.M63	M63x1,5	64,0	34 -45	67	74	15,0	40-52	*5*

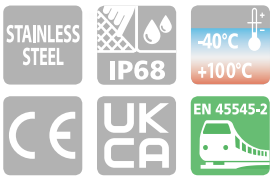
MAXIINOX CABLE GLANDS

Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

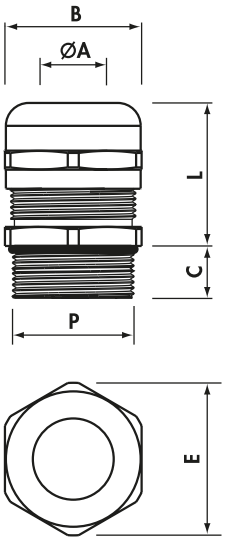
7900
7900A

MAXI*inox*





Material:
STAINLESS STEEL AISI 303/316L
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A
(factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



Stainless Steel AISI 303

Pg thread DIN 40 430

Stainless Steel AISI 303	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900.07	Pg 7	12,7	3 - 7	16	18	5,0	16-20	*90/30*
7900.09	Pg 9	15,5	4 - 8	17	19	6,0	17-23	*90/30*
7900.11	Pg11	18,8	4,5-10	20	23	6,0	20-25	*60/30*
7900.13	Pg13,5	20,5	5 -12	22	25	6,5	20-26	*90/30*
7900.16	Pg16	22,6	7 -13	24	27	6,5	20-27	*60/30*
7900.21	Pg21	28,5	10 -17	30	33	7,0	24-30	*40/20*
7900.29	Pg29	37,2	17 -25	40	45	8,0	30-37	*30/15*
7900.36	Pg36	47,2	20 -32	50	55	8,0	38-48	*10*
7900.42	Pg42	54,2	28 -38	57	63	10,0	36-46	*5*
7900.48	Pg48	60,0	34 -45	67	74	15,0	40-52	*5*

Stainless Steel AISI 316L

Pg thread DIN 40 430

Stainless Steel AISI 316L	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900A.07	Pg 7	12,7	3 - 7	16	18	5,0	16-20	*60/20*
7900A.09	Pg 9	15,5	4 - 8	17	19	6,0	17-23	*60/20*
7900A.11	Pg11	18,8	4,5-10	20	23	6,0	20-25	*100/20*
7900A.13	Pg13,5	20,5	5 -12	22	25	6,5	20-26	*100/20*
7900A.16	Pg16	22,6	7 -13	24	27	6,5	20-27	*40/20*
7900A.21	Pg21	28,5	10 -17	30	33	7,0	24-30	*60/15*
7900A.29	Pg29	37,2	17 -25	40	45	8,0	30-37	*20/10*
7900A.36	Pg36	47,2	20 -32	50	55	8,0	38-48	*7*
7900A.42	Pg42	54,2	28 -38	57	63	10,0	36-46	*5*
7900A.48	Pg48	60,0	34 -45	67	74	15,0	40-52	*5*

CEMBRE

1143
1142
1141

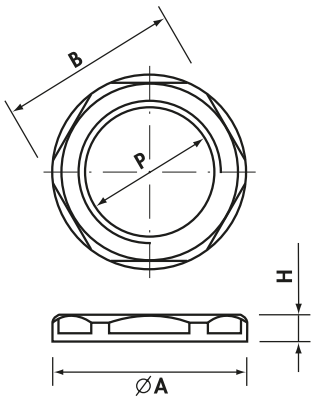
LOCKNUTS WITH COLLAR

Polyamide PA6.6



PA 6.6 | V2 UL94 | -40°C +100°C

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black,
RAL 7001 dark grey



Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	H (mm)	Quantity Box/Bag
1143M12	M12x1,5	18,5	17	5	1.000/100
1143M16	M16x1,5	24,0	22	5	600/100
1143M20	M20x1,5	29,0	27	6	400/100
1143M25	M25x1,5	35,5	32	6	200/100
1143M32	M32x1,5	45,0	41	7	100/50
1143M40	M40x1,5	55,0	50	7	30
1143M50	M50x1,5	65,0	60	8	30
1143M63	M63x1,5	82,0	75	8	15

Add to Ref: N for Black, G for Dark Grey

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	H (mm)	Quantity Box/Bag
1142007	Pg 7	21	19	5	100
1142009	Pg 9	24	22	5	700/100
1142011	Pg11	26	24	5	500/100
1142013	Pg13,5	29	27	6	400/100
1142016	Pg16	33	30	6	300/100
1142021	Pg21	39	36	7	100/50
1142029	Pg29	50	46	7	50
1142036	Pg36	66	60	8	30
1142042	Pg42	73	65	8	25
1142048	Pg48	78	70	8	20

Add to Ref: N for Black, G for Dark Grey

BSP thread ISO 228/1

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	H (mm)	Quantity Box/Bag
1141012	G1/2"	29	27	6	400/100
1141112	G1"1/2	66	60	8	30
1141200	G2"	78	70	8	20

Add to Ref: N for Black

LOCKNUTS WITHOUT COLLAR

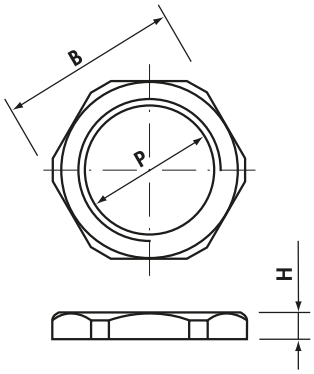
Polyamide PA6.6

1112
1710
1410



PA 6.6 | V2 UL94 | -40°C +100°C

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black



Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
1112	M12x1,5	17	5	1.000/100
1116	M16x1,5	22	5	700/100
1120	M20x1,5	27	6	400/100
1125	M25x1,5	32	6	300/100
1132	M32x1,5	41	7	100/50
1140	M40x1,5	50	7	30
1150	M50x1,5	60	8	30
1163	M63x1,5	75	8	15

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
1719E17*	Pg 7	17	5	1.000/100
1719	Pg 7	19	5	100
1710	Pg 9	22	5	700/100
1711	Pg11	24	5	500/100
1712	Pg13,5	27	6	400/100
1713	Pg16	30	6	300/100
Δ1714E34*	Pg21	34	7	200/100
1714	Pg21	36	7	200/100
1715	Pg29	46	7,5	75/25

Add to Ref: N for Black
Δ Light Grey only
*** Not DIN 46 320**

BSP thread ISO 228/1

Type Light Grey	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
1410	G1/4"	19	5	800/100
1411	G3/8"	23	6	600/100
1412	G1/2"	27	6	400/100
1414	G3/4"	34	7	200/100
1415	G1"	40	7	100/50

Add to Ref: N for Black

CEMBRE

2033
2032
2031

LOCKNUTS

Nickel Plated Brass

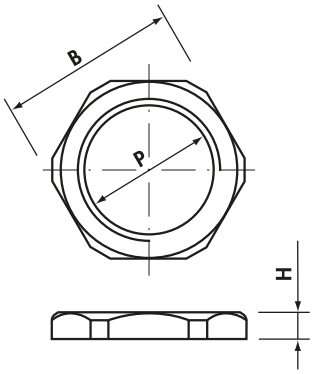


BRASS | 3µm NICKEL PLATED | -40°C +100°C

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
2033M12N	M12x1,5	16	2,8	2.000/100
2033M16N	M16x1,5	19	2,8	1.000/100
2033M20N	M20x1,5	24	3,0	600/100
2033M25N	M25x1,5	30	4,0	300/50
2033M32N	M32x1,5	36	4,0	250/25
2033M40N	M40x1,5	45	5,0	100/10
2033M50N	M50x1,5	60	5,0	80/10
2033M63N	M63x1,5	70	5,5	50/5
2033M75N	M75x1,5	80	7,0	25/1

Pg thread DIN 40 430 - Dimensions DIN 46 320



Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
2032007N	Pg 7	16*	2,8	1.500/100
2032009N	Pg 9	18	2,8	1.500/100
2032011N	Pg11	21	3,0	1.000/100
2032013N	Pg13,5	23	3,0	600/100
2032016N	Pg16	26	3,0	600/100
2032021N	Pg21	32	3,5	500/100
2032029N	Pg29	41	4,0	200/50
2032036N	Pg36	51	5,0	100/10
2032042N	Pg42	60	5,0	50/10
2032048N	Pg48	64	5,5	50/10

***Different dimension to DIN 46320**

BSP thread ISO 228/1

Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
2031014N	G1/4"	16	3,0	2.400/100
2031038N	G3/8"	19	3,0	1.000/100
2031012N	G1/2"	24	3,5	1.000/100
2031058N	G5/8"	26	4,0	500/50
2031034N	G3/4"	30	4,0	500/50
2031100N	G1"	37	4,0	250/25
2031118N	G1"1/8	41	4,5	100/25
2031114N	G1"1/4	45	4,5	200/20
2031112N	G1"1/2	52	5,5	100/20
2031200N	G2"	64	7,0	50/10
2031212N	G2"1/2	80	7,0	20/5
2031300N	G3"	95	8,0	20/5

EMC LOCKNUTS

20N3

Nickel Plated Brass

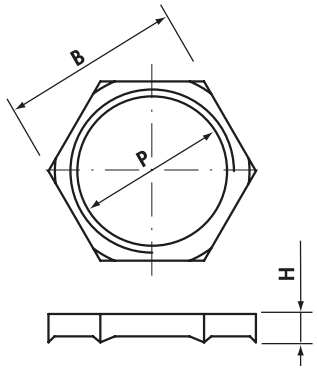


With serrated teeth to maintain electrical contact

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
20N3M12N	M12x1,5	15	3,5	1000/100
20N3M16N	M16x1,5	19	3,5	1000/100
20N3M20N	M20x1,5	24	3,5	500/100
20N3M25N	M25x1,5	30	4,0	400/100
20N3M32N	M32x1,5	36	4,0	200/100
20N3M40N	M40x1,5	46	4,7	100/50
20N3M50N	M50x1,5	60	5,7	50/50
20N3M63N	M63x1,5	70	6,7	50/25

BRASS | 3µm NICKEL PLATED | -40°C +100°C



MAXIINOX LOCKNUTS

7032
7033

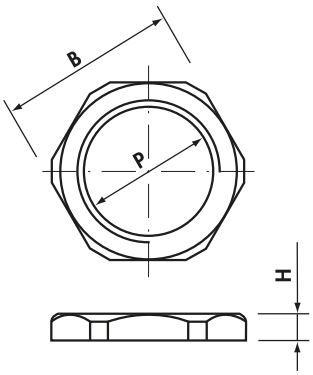
Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)



Metric thread M 1.5 pitch CEI EN 60423

Stainless Steel AISI 303	Stainless Steel AISI 316L	P	B Spanner (mm)	H (mm)	AISI 303 Quantity Box/Bag	AISI 316L Quantity Box/Bag
7033M12	7033AM12	M12x1,5	16	2,8	450/30	300/20
7033M16	7033AM16	M16x1,5	20	2,8	450/30	300/20
7033M20	7033AM20	M20x1,5	24	3,5	250/25	200/20
7033M25	7033AM25	M25x1,5	29	4,0	160/20	120/15
7033M32	7033AM32	M32x1,5	36	4,0	105/15	84/12
7033M40	7033AM40	M40x1,5	45	5,0	60/15	40/10
7033M50	7033AM50	M50x1,5	57	5,0	40/10	28/7
7033M63	7033AM63	M63x1,5	70	5,5	32/8	20/5

STAINLESS STEEL | -40°C +100°C



Pg thread DIN 40 430

Stainless Steel AISI 303	Stainless Steel AISI 316L	P	B Spanner (mm)	H (mm)	AISI 303 Quantity Box/Bag	AISI 316L Quantity Box/Bag
7032007	7032A007	Pg 7	16	2,8	450/30	300/20
7032009	7032A009	Pg 9	20	2,8	450/30	300/20
7032011	7032A011	Pg11	22	3,0	300/30	200/20
7032013	7032A013	Pg13,5	22	3,0	300/30	200/20
7032016	7032A016	Pg16	27	3,0	240/30	160/20
7032021	7032A021	Pg21	32	3,5	160/20	150/15
7032029	7032A029	Pg29	41	4,0	60/15	40/10
7032036	7032A036	Pg36	50	5,0	40/10	28/7
7032042	7032A042	Pg42	60	5,0	40/10	20/5
7032048	7032A048	Pg48	64	5,5	32/8	20/5

CEMBRE

TCP

INTERNAL PLUGS FOR CABLE GLANDS

Polyamide PA6.6



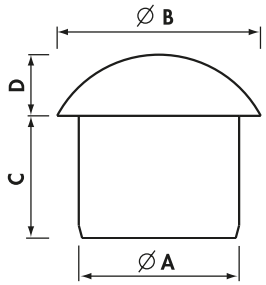
For cable glands type:

MAXIblock®
MAXIbrass®
MAXIinox

PA 6.6 | IP68 | V2 UL94 | -40°C +100°C

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 9005 black

Application:
Blanking the cable entry of cable glands and maintaining IP 68.



Plugs

Type	Suitable for MAXIblock® 1900	Suitable for MAXIblock® 1940	Suitable for MAXIbrass® MAXIinox 2900 / 7900	Suitable for MAXIbrass® MAXIinox 2940	Ø A (mm)	Ø B (mm)	C (mm)	D (mm)	Quantity Box/Bag
TCP5	M12R + Pg7R		M12R		4,5	8,5	10,8	4,5	3.000/100
TCP10	Pg9R		Pg9R		6,0	12,0	12,0	4,5	1.500/100
TCP12	M12 + Pg7		M12 + Pg7		6,8	12,0	12,0	4,5	1.000/100
	M16R + Pg11R		M16R + Pg11R						
TCP15	Pg9		Pg9	M12	8,0	11,0	11,5	5,0	1.500/100
TCP18	M16 + Pg11		M16 + Pg11		9,5	12,5	13,0	5,0	800/100
TCP20	M20R		M20R		10,0	15,0	14,0	6,0	800/100
	Pg13,5 + Pg13,5R		Pg13,5 + Pg13,5R	M16					
	Pg16R		Pg16R						
TCP25	M20 + Pg16	M20	M20 + Pg16		12,5	17,0	15,0	8,0	300/100
TCP30	M25R + M32R		M25R + M32R		12,5	22,5	18,0	9,0	300/100
	Pg21R		Pg21R						
TCP35	M25 + Pg21	M25	M25 + Pg21	M20	16,0	19,5	18,0	8,0	200/100
TCP40	M32		M32	M25	19,0	22,5	19,0	9,0	150/50
TCP45	M40R + Pg29 + Pg36R	M32	M40R + Pg29	M32	22,0	30,0	20,0	10,0	100/50
TCP50	M40 + M50R + Pg42R		M40 + M50R		27,5	38,0	25,0	12,0	50/25
TCP55	Pg36	M40 + M40E	Pg36	M40	31,5	36,5	23,5	12,0	50/25
TCP60	M50		M50		34,5	40,0	23,5	12,0	50/25
TCP65	M63R + Pg42 + Pg48R	M50 + M50E	M63R + Pg42	M50	37,5	48,0	26,5	12,0	30/15
TCP70	M63 + Pg48		M63 + Pg48	M50E	43,0	48,0	26,5	12,0	30/15

R: reduced cable entry

MULTI-ENTRY SEALS FOR CABLE GLANDS

Neoprene® 70 sh A

36A
36C

For cable glands type:

MAXIblock®
MAXIbrass®
MAXIinox

Material: NEOPRENE® 70 sh A
Temperature range:
–40°C to +130°C
Protection: IP 68
Colour: RAL 9005 black

Application:
IP68 sealing of multiple cables entering cable glands.

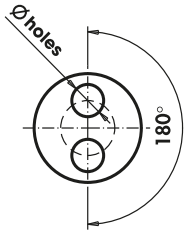


Multi-entry seals

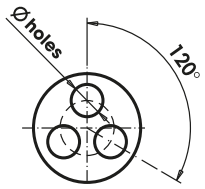
NEOPRENE | IP68 | -40°C +130°C

Type	Suitable for MAXIblock® 1900	Suitable for MAXIblock® 1940	Suitable for MAXIbrass® MAXIinox 2900 / 7900	Suitable for MAXIbrass® MAXIinox 2940	No. entries	Ø entries (mm)	Quantity Box/Bag
36A3M1623	M16 + Pg11		M16 + Pg11		2	3,0	500/100
36A3M1624	M16 + Pg11		M16 + Pg11		2	4,0	1.000/100
36A3M16322	M16 + Pg11		M16 + Pg11		3	2,2	1.000/100
36A3M2025	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	2	5,0	500/100
36A3M2026	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	2	6,0	500/100
36A3M2034	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	3	4,0	500/100
36A3M2035	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	3	5,0	500/100
36A3M20356	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	3	5,6	500/100
36A3M2526	M25		M25 + Pg21	M20	2	6,0	300/50
36A3M2536	M25		M25 + Pg21	M20	3	6,0	300/50
36A3M2537	M25		M25 + Pg21	M20	3	7,0	300/50
36A3M2545	M25		M25 + Pg21	M20	4	5,0	300/50
36A3M2546	M25		M25 + Pg21	M20	4	6,0	300/50
36A3M2554	M25		M25 + Pg21	M20	5	4,0	300/50
36C3M252105	M25		M25 + Pg21	M20	2	5+10,5	300/50
36A3M3228	M32		M32	M25	2	8,0	150/50
36A3M3239	M32		M32	M25	3	9,0	150/50
36A3M32465	M32		M32	M25	4	6,5	150/50
36A3M3248	M32		M32	M25	4	8,0	150/50
36A3M4078	M40		M40		7	8,0	100/100
36A3M40106	M40		M40		10	6,0	100/100
36A3M5088	M50 + Pg 36	M40 + M40E	M50 + Pg 36	M40	8	8,0	50/50

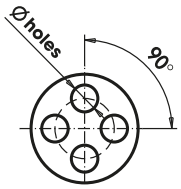
2 ENTRIES



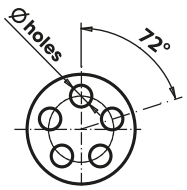
3 ENTRIES



4 ENTRIES



5 ENTRIES



MULTI-ENTRY SEAL PLUGS FOR CABLE GLANDS

Polyamide PA6.6

TGM

Material: POLYAMIDE PA6.6
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey

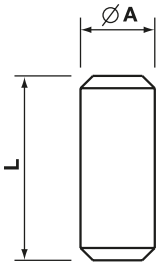
Application:
Plugging unused entries in multi-entry seals and maintaining IP68.



Multi-entry seal plugs

PA 6.6 | IP68 | -40°C +100°C

Type	Suitable for Seal	Ø A (mm)	L (mm)	Quantity Box/Bag
TGM38	36A3M1623	3	10	5.000/100
TGM48	36A3M1624 + 36A3M2034 + 36A3M2554	4	8	5.000/100
TGM58	36A3M2025 + 36A3M2035	5	8	5.000/100
TGM513	36A3M2545	5	13	2.500/50
TGM613	36A3M2526 + 36A3M2536 + 36A3M40106 + 36A3M2546 + 36A3M2026	6	13	2.000/50
TGM713	36A3M2537	7	13	2.000/50
TGM817	36A3M3248 + 36A3M5088 + 36A3M4078 + 36A3M3228	8	17	100



CEMBRE

1173M
1153M

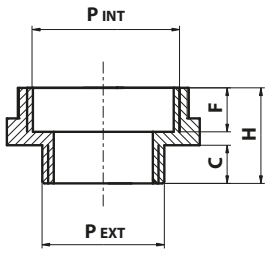
ENTRY THREAD ADAPTERS

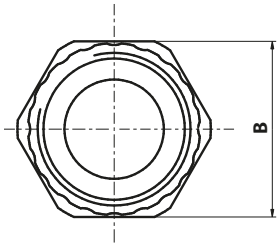
Polyamide PA6.6

PA 6.6 | V2 UL94 | IP54 | IP68 * | -40°C +85°C | HF HALOGEN FREE



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +85°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)
Colour: RAL 7035 light grey,
RAL 9005 black





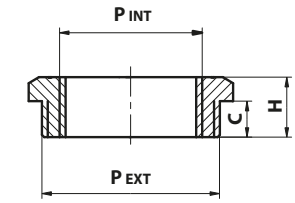
Entry thread enlargers

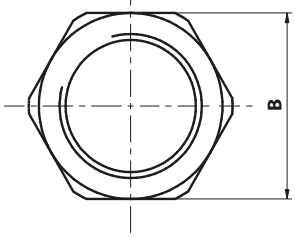
Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	B Spanner (mm)	F (mm)	C (mm)	H (mm)	Quantity Box/Bag
1173M1216	M12x1,5	M16x1,5	20,0	10,5	8,0	21,0	200/100
1173M1620	M16x1,5	M20x1,5	24,0	10,5	8,0	21,0	200/100
1173M2025	M20x1,5	M25x1,5	29,0	10,0	8,0	21,0	100/50
1173M2532	M25x1,5	M32x1,5	36,0	11,5	8,0	23,0	50/50
1173M3240	M32x1,5	M40x1,5	46,0	11,5	10,0	25,0	50/50

*** To achieve IP68 rating:**
- for all types, a flat FD seal is required between the adapter and the wall
- an additional FD seal must also be fitted between the cable gland and the adapter on sizes M12, M16, M20 and M25. From size M32, the cable glands are already supplied with FD seals
- the IP rating is only guaranteed in combination with Maxiblock cable glands







Entry thread reducers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	B Spanner (mm)	C (mm)	H (mm)	Quantity Box/Bag
1153M1612	M16x1,5	M12x1,5	22,0	8,0	12,0	300/100
1153M2012	M20x1,5	M12x1,5	24,0	8,0	12,0	300/100
1153M2016**	M20x1,5	M16x1,5	24,0	8,0	12,0	300/100
1153M2512	M25x1,5	M12x1,5	29,0	8,0	14,0	200/100
1153M2516	M25x1,5	M16x1,5	29,0	8,0	14,0	150/50
1153M2520**	M25x1,5	M20x1,5	29,0	8,0	14,0	150/50
1153M3216	M32x1,5	M16x1,5	36,0	10,0	16,0	100/50
1153M3220	M32x1,5	M20x1,5	36,0	10,0	16,0	100/50
1153M3225**	M32x1,5	M25x1,5	36,0	10,0	16,0	100/50
1153M4020	M40x1,5	M20x1,5	46,0	10,0	16,0	50/25
1153M4025	M40x1,5	M25x1,5	46,0	10,0	16,0	50/25
1153M4032	M40X1,5	M32X1,5	46,0	10,0	16,0	50/25
1153M5025	M50X1,5	M25x1,5	55,0	12,0	18,0	30/10
1153M5032	M50X1,5	M32X1,5	55,0	12,0	18,0	30/10
1153M5040	M50X1,5	M40X1,5	55,0	12,0	18,0	30/10
1153M6332	M63X1,5	M32X1,5	68,0	12,0	18,0	20/10
1153M6340	M63X1,5	M40X1,5	68,0	12,0	18,0	20/10
1153M6350	M63X1,5	M50X1,5	68,0	12,0	18,0	20/10

*** To achieve IP68 rating:**
- for all types, a flat FD seal is required between the adapter and the wall
- an additional FD seal must also be fitted between the cable gland and the adapter on sizes M12, M16, M20 and M25. From size M32, the cable glands are already supplied with FD seals
- the IP rating is only guaranteed in combination with Maxiblock cable glands

****Add to Ref: N for Black**

ENTRY THREAD ADAPTERS

Nickel Plated Brass

2093
2043
20A4



BRASS | 3µm NICKEL PLATED | -40°C +100°C

Entry thread enlargers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	ØA (mm)	C (mm)	H (mm)	Quantity Box/Bag
20931216N	M12x1,5	M16x1,5	18	5	15,5	500/100
20931620N	M16x1,5	M20x1,5	22	5	17,5	300/100
20932025N	M20x1,5	M25x1,5	27	6	20,0	150/50
20932532N	M25x1,5	M32x1,5	34	7	22,5	100/50
20932540N	M25x1,5	M40x1,5	42	7	23,5	50/50
20933240N	M32x1,5	M40x1,5	42	8	24,5	50/50
20933250N	M32x1,5	M50x1,5	52	8	27,5	25/25
20934050N	M40x1,5	M50x1,5	52	8	27,5	25/25
20935063N	M50x1,5	M63x1,5	66	9	31,0	20/10

Entry thread reducers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	ØA (mm)	C (mm)	H (mm)	Quantity Box/Bag
20431612N	M16x1,5	M12x1,5	18	5	7,5	1.000/100
20432012N	M20x1,5	M12x1,5	22	6	9,0	600/100
20432016N	M20x1,5	M16x1,5	22	6	9,0	500/100
20432512N	M25x1,5	M12x1,5	27	7	10,0	300/50
20432516N	M25x1,5	M16x1,5	27	7	10,0	300/50
20432520N	M25x1,5	M20x1,5	27	7	10,0	300/100
20433220N	M32x1,5	M20x1,5	34	8	11,0	100/25
20433225N	M32x1,5	M25x1,5	34	8	11,0	150/50
20434025N	M40x1,5	M25x1,5	43	8	11,5	100/25
20434032N	M40x1,5	M32x1,5	43	8	11,5	100/25
20435032N	M50x1,5	M32x1,5	53	9	12,5	50/10
20435040N	M50x1,5	M40x1,5	53	9	12,5	50/25
20436340N	M63x1,5	M40x1,5	66	10	14,0	30/10
20436350N	M63x1,5	M50x1,5	66	10	14,0	30/10

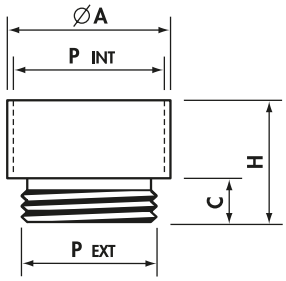


Fig. 1

Entry thread converters - Metric to Pg

Type	P EXT	P INT	Fig.	ØA (mm)	C (mm)	H (mm)	Quantity Box/Bag
20A42011N	M20x1,5	Pg11	1	22	6,5	17,5	300/100
20A42016N	M20x1,5	Pg16	1	24	6,5	20,0	200/50
20A42513N	M25x1,5	Pg13,5	2	27	7,0	10,0	300/50
20A42516N	M25x1,5	Pg16	2	27	7,0	10,0	300/50
20A43216N	M32x1,5	Pg16	2	36	8,0	11,5	100/25
20A43221N	M32x1,5	Pg21	2	36	8,0	11,5	100/25

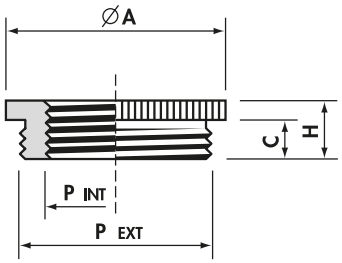


Fig. 2

Entry thread converters - Pg to Metric

20A40916N	Pg 9	M16x1,5	1	20	6,0	15,0	400/100
20A41120N	Pg11	M20x1,5	1	22	6,0	16,0	300/100
20A41320N	Pg13,5	M20x1,5	1	24	6,5	16,5	200/50
20A41620N	Pg16	M20x1,5	2	24	6,5	9,5	50/50
20A42120N	Pg21	M20x1,5	2	30	7,0	10,0	100/100
20A42125N	Pg21	M25x1,5	2	30	7,0	10,0	100/100
20A42925N	Pg29	M25x1,5	2	39	8,0	11,5	50/50

CEMBRE

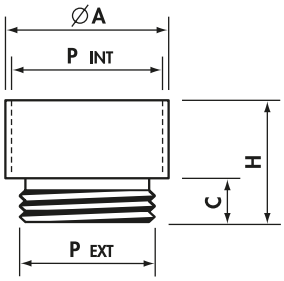
1800 2042

ENTRY THREAD ADAPTERS

Nickel Plated Brass



BRASS | 3µm NICKEL PLATED | -40°C +100°C



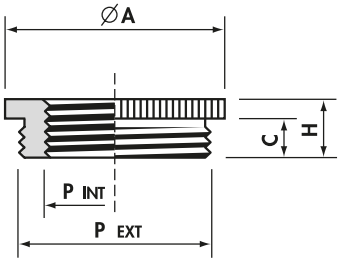
Entry thread enlargers

Pg thread DIN 40 430 - Dimensions DIN 46 320-K

Type	P EXT	P INT	Ø A (mm)	C (mm)	H (mm)	Quantity Box/Bag
180709	Pg 7	Pg 9	17	5,0	15,0	600/100
180911	Pg 9	Pg11	20	6,0	16,5	500/100
180913	Pg 9	Pg13,5	22	6,0	17,5	300/100
181113	Pg11	Pg13,5	22	6,0	17,5	300/100
181116	Pg11	Pg16	24	6,0	18,5	100/50
181316	Pg13,5	Pg16	24	6,5	19,0	200/50
181321	Pg13,5	Pg21	30	6,5	21,0	150/50
181621	Pg16	Pg21	30	6,5	21,0	100/25
182129	Pg21	Pg29	39	7,0	23,0	75/25
182936	Pg29	Pg36	50	8,0	27,5	30/10
183642	Pg36	Pg42	57	9,0	31,0	20/10
184248	pg42	pg48	64	10,0	33,0	20/10

Entry thread reducers

Pg thread DIN 40 430 - Dimensions DIN 46 320-H



Type	P EXT	P INT	Ø A (mm)	C (mm)	H (mm)	Quantity Box/Bag
20420907N	Pg 9	Pg 7	17	6,0	8,5	800/100
20421107N	Pg11	Pg 7	20	6,0	8,5	600/100
20421109N	Pg11	Pg 9	20	6,0	8,5	600/100
20421307N	Pg13,5	Pg 7	22	6,5	9,0	600/100
20421309N	Pg13,5	Pg 9	22	6,5	9,0	600/100
20421311N	Pg13,5	Pg11	22	6,5	9,0	600/100
20421607N	Pg16	Pg 7	24	6,5	9,5	300/50
20421609N	Pg16	Pg 9	24	6,5	9,5	400/100
20421611N	Pg16	Pg11	24	6,5	9,5	400/100
20421613N	Pg16	Pg13,5	24	6,5	9,5	400/100
20422111N	Pg21	Pg11	30	7,0	10,0	200/50
20422113N	Pg21	Pg13,5	30	7,0	10,0	200/50
20422116N	Pg21	Pg16	30	7,0	10,0	200/50
20422916N	Pg29	Pg16	39	8,0	11,5	100/25
20422921N	Pg29	Pg21	39	8,0	11,5	100/25
20423621N	Pg36	Pg21	50	9,0	12,5	50/25
20423629N	Pg36	Pg29	50	9,0	12,5	50/25
20424236N	Pg42	Pg36	57	10,0	14,0	50/25
20424836N	Pg48	Pg36	64	10,0	14,0	25/25
20424842N	Pg48	Pg42	64	10,0	14,0	50/25

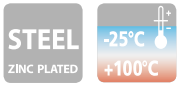
Zinc plated STEEL



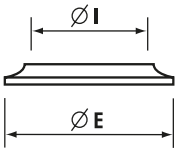
Compression washers

Type	Fits thread	Ø E (mm)	Ø I (mm)	Quantity Box/Bag
6010.14	Pg7 + G1/4"	11,0	8,0	*15.000/1.000*
6010.38	Pg9 + G3/8"	14,5	10,0	*5.000/1.000*
6010.11	Pg11 + G3/8"	17,0	12,0	*5.000/1.000*
6010.12	Pg13,5 + G1/2"	18,0	14,0	*4.000/1.000*
6010.58	Pg16 + G5/8"	20,0	15,5	*3.000/1.000*
6010.34	G3/4"	24,0	18,5	*2.500/500*
6010.114	G1"1/4	38,0	33,0	*1.000/500*
6010.21	Pg21 + G3/4"	26,5	20,0	*2.000/500*
6010.01	G1"	30,0	24,5	*1.500/500*
6010.29	Pg29 + G1"1/8	35,0	26,5	*1.000/500*
6010.36	Pg36 + G1"1/2	45,0	38,0	*750/250*
6010.42	Pg42	51,0	42,5	*500/250*
6010.48	Pg48 + G2"	57,0	48,0	*400/100*

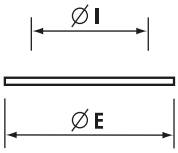
Subject to availability, the compression washers could be of type A or B



Material:
Zinc plated STEEL UNI 5961/84



Type A



Type B

341
342
343
344

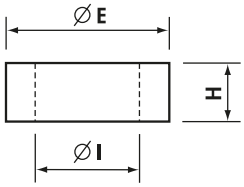
SEALING RINGS

PVC 50 sh A



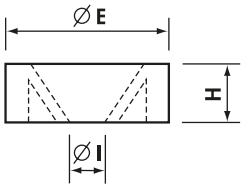
PVC -20°C +90°C

Material: PVC 50 sh A
Colour: Red



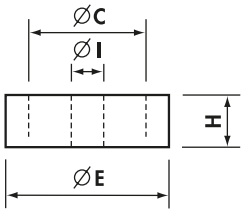
Cylindrical sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	C (mm)	Ø E (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
3411014	G1/4″	–	10,9	6,7	6,0	*1.500/100*
3411038	G3/8″ + M16	–	14,5	8,5	6,0	*1.000/100*
3411012	Pg13,5 + G1/2″ + M20	–	18,0	11,0	7,5	*500/100*
3412016	Pg16 + G5/8″	–	20,0	14,0	7,5	*300/100*
3422016	Pg16 + G5/8″	–	20,0	10,0	7,5	*300/100*
3411034	G3/4″	–	23,5	17,5	8,0	*300/100*
3411100	G1″	–	29,0	22,0	10	*200/100*
3412011	Pg11	–	16,5	10,0	7,0	*1.000/100*
3412021	Pg21 + M25	–	26,0	18,0	8,5	*300/100*
3412029	Pg29 + G1″1/8 + M32	–	35,0	26,0	10,0	*200/100*



Membrane sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	C (mm)	Ø E (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
3431100	G1″	–	29	15	9,5	*200/100*



Double sealing rings

Type	Suitable for Cable Glands IP54 (2001.., 2002.., 2003..)	C (mm)	Ø E (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
3441012	G1/2″ + Pg13,5 + M20	13	18,5	8	6,5	*500/100*
3441034	G3/4″	17	23	12,5	8,5	*300/100*

SEALING RINGS

Butadiene-Nitrile NBR

1880
1890



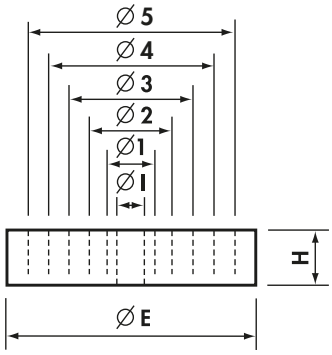
Concentric sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	Ø E (mm)	Ø 5 (mm)	Ø 4 (mm)	Ø 3 (mm)	Ø 2 (mm)	Ø 1 (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
1880	Pg9 + M16	13,3	–	–	–	10,0	7,5	5,0	5,5	1.500/100
1881	Pg11	16,5	–	–	–	12,5	10,0	7,5	6,0	1.000/100
1882	Pg13,5 + M20 + G1/2"	18,3	–	–	–	12,5	10,0	7,5	6,0	800/100
1883	Pg16 + G5/8"	20,4	–	–	15,0	12,5	10,0	7,5	7,0	600/100
1884	Pg21 + M25	26,0	–	–	19,0	16,0	13,0	10,0	8,0	300/100
1884A	Pg21 + M25	26,0	–	–	20,5	18,0	15,0	10,5	8,0	50/25
1885*	Pg29 + M32 + G1"1/8	34,7	–	–	27,0	24,0	21,0	18,0	9,5	150/50
1886	Pg36 + G1"1/2 + M40	44,7	–	–	33,0	30,0	27,0	24,0	12,0	100/50
1887*	Pg42 + M50	51,7	–	–	39,0	36,0	33,0	30,0	14,0	50/25
1888/5	Pg48 + G2" + M63	57,0	45	41	37,0	33,0	29,0	24,0	14,0	75/25
1888*	Pg48 + G2" + M63	57,0	–	–	45,0	42,0	39,0	36,0	14,0	50/25

***material: RUBBER NR**

NBR -30°C +100°C

Material:
BUTADIENE-NITRILE NBR
with concentric perforations

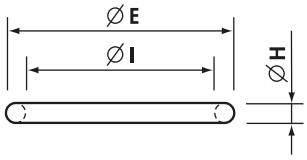


O-rings

Type	Fits thread	Ø E (mm)	Ø I (mm)	Ø H (mm)	Quantity Box/Bag
1889	M12	12,81	9,25	1,78	1.000/1.000
1890	Pg7 + G1/4"	14,38	10,82	1,78	5.000/1.000
1890A	M16 + Pg9 + G3/8"	15,98	12,42	1,78	5.000/1.000
1891	Pg11	19,16	15,60	1,78	5.000/1.000
1891A	M20	20,73	17,17	1,78	5.000/1.000
1892	Pg13,5 + G1/2"	22,33	18,77	1,78	5.000/1.000
1892A	Pg16 + G5/8"	23,91	20,35	1,78	5.000/1.000
1892B	M25	25,51	21,95	1,78	5.000/1.000
1893	Pg21	28,68	25,12	1,78	3.000/500
1893A	M32	30,00	26,00	2,00	500/500
1925.3	G3/4"	30,31	25,07	2,62	1.000/500
1894	G1"	35,06	29,82	2,62	1.000/500
1895	M40 + Pg29 + G1"1/8	39,84	34,60	2,62	1.000/500
1896	G1"1/4	43,01	37,77	2,62	500/500
1897	Pg36 + G1"1/2	49,36	44,12	2,62	800/100
1898	Pg42 + G1"3/4	55,71	50,47	2,62	800/100
1899	Pg48 + G2"	62,06	56,82	2,62	100
1899A	G2"1/2	76,50	69,44	3,53	100/1
1899B	G3"	92,60	81,92	5,34	100/1

NBR -30°C +100°C

Material:
Butadiene-Nitrile 70 sh



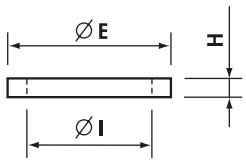
CEMBRE

357



SBR -20°C +70°C

Material:
BUTADIENE-STIRENE SBR 70 sh A
Temperature range: -20°C to +70°C
Colour: RAL 7035 light grey



SEALING RINGS

Butadiene-Stirene SBR 70shA

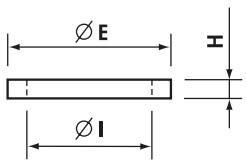
Type	Fits thread	ØE (mm)	ØI (mm)	H (mm)	Quantity Box/Bag
3572007	Pg7	16,5	11,5	1,0	4.000/100
3572011	Pg11	23,0	17,5	1,0	2.500/100
35720131	Pg13,5 + M20X1,5 + G1/2"	27,5	20,5	1,4	1.000/100
3572013	Pg13,5	30,0	20,5	2,2	1.000/100
3572016	Pg16	29,0	23,0	2,0	1.000/100
3572021	Pg21	33,5	27,0	3,0	500/100
3573M16	M16x1,5	20,5	16,3	1,0	3.000/100
3573M20	M20X1,5 + Pg13,5 + G1/2"	25,5	20,5	1,0	4.000/100
3573M25	M25x1,5	30,5	25,5	1,0	2.000/100

FD



NEOPRENE -25°C +100°C

Material:
NEOPRENE® 80 sh A
Temperature range: -25°C to +100°C
Colour: RAL 9005 black



SEALING RINGS

Neoprene® 80 sh A

Type	Fits thread	ØE (mm)	ØI (mm)	H (mm)	Quantity Box/Bag
FD M12	M12	16,0	10,0	1,2	2.500/50
FD 7	Pg7 + G1/4"	17,0	11,3	1,2	3.000/50
FD 9	Pg9 + M16	20,0	13,9	1,2	2.000/50
FD M16	M16* + G3/8"	20,0	15,5	1,2	2.000/50
FD 11	Pg11	23,0	17,1	1,2	2.000/50
FD M20	M20	24,0	18,0	1,2	2.000/50
FD 13,5	Pg13,5 + G1/2"	25,0	19,0	1,2	2.500/50
FD 16	Pg16 + G5/8"	27,0	21,0	1,2	1.500/50
FD M25	M25	31,0	23,0	1,2	1.000/50
FD 21	Pg21 + G3/4"	34,5	27,0	1,5	1.000/50
FD M32	M32 + G1"	36,0	30,0	1,3	600/20
FD 29	Pg29 + G1"1/8"	45,0	35,2	1,5	500/25
FD M40	M40 + G1"1/4	46,0	38,0	1,2	500/20
FD 36	Pg36 + G1"1/2"	53,5	45,6	1,2	250/25
FD M50	M50	55,0	47,5	1,1	10
FD 42	Pg42 + G1"3/4"	62,0	52,0	1,1	10
FD 48	Pg48 + G2"	68,0	58,0	1,1	10
FD M63	M63	68,0	59,0	1,1	500/5

***recommended with set screws**

ENTRY PLUGS

Polyamide PA6

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1053M12	M12x1,5	15	6	100
1053M16♦	M16x1,5	20	6	100
1053M20♦	M20x1,5	25	7	100
1053M25♦	M25x1,5	30	7	100
1053M32♦	M32x1,5	37	9	50
1053M40♦	M40x1,5	47	9	30
1053M50♦	M50x1,5	58	10	20
1053M63	M63x1,5	72	12	10

Add to Ref: N for Black

♦Not UL approved

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1052007	Pg 7	15	6	100
1052009♦	Pg 9	19	6	100
1052011♦	Pg11	22	7	100
1052013♦	Pg13,5	25	7	100
1052016♦	Pg16	27	7	100
1052021	Pg21	33	9	50
1052029♦	Pg29	44	9	50/25
1052036	Pg36	55	10	20
1052042	Pg42	62	10	10
1052048	Pg48	69	12	10

Add to Ref: N for Black

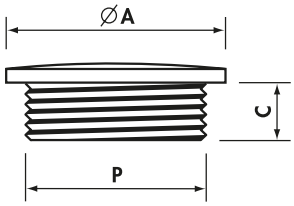
♦Not UL approved

1053
1052



PA 6 · IP54 · IP68 * · HB UL94 · -40°C +100°C · c UL us File no. E220310

Material: POLYAMIDE PA6
reinforced with fibreglass
self-extinguishing class HB (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)
Colour: RAL 7035 light grey, RAL 9005 black



Polystyrene PS

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1253M12	M12x1,5	15	6	100
1253M16	M16x1,5	20	6	100
1253M20	M20x1,5	25	7	100
1253M25	M25x1,5	30	7	100
1253M32	M32x1,5	37	9	50
1253M40	M40x1,5	47	9	30
1253M50	M50x1,5	58	10	20
1253M63	M63x1,5	72	12	10

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1840	Pg 7	15	6	100
1841	Pg 9	19	6	100
1842	Pg11	22	7	100
1843	Pg13,5	25	7	100
1844	Pg16	27	7	100
1845	Pg21	33	9	50
1846	Pg29	44	9	50/25
1847	Pg36	55	10	20
1848	Pg42	62	10	10
1849	Pg48	69	12	10

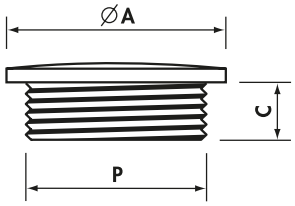
Add to Ref: N for Black

1253
1840



PS · IP54 · IP68 * · -20°C +60°C

Material: POLYSTYRENE PS
Temperature range:
–20°C to +60°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)
Colour: RAL 7035 light grey,
RAL 9005 black



CEMBRE

ENTRY BUSHES

Polyamide PA6/PA6.6

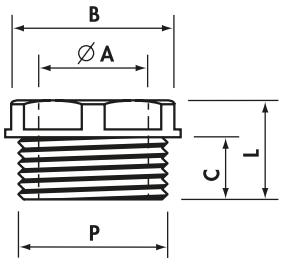


PA 6 V0 UL94

PA 6.6 V2 UL94 **

-20°C +90°C

Material: POLIAMMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black



Entry bushes

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1700.2	Pg 9	10,0	16	9,0	14,0	600/100
*1701.2	Pg11	11,5	19	10,0	15,0	300/100
*1702.2**	Pg13,5	13,5	21	11,0	16,5	300/100
1703.2	Pg16	16,0	23	12,5	18,5	200/50
1704.2	Pg21	22,0	30	12,0	17,5	100/50
1705.2	Pg29	27,0	40	15,0	22,0	50/50

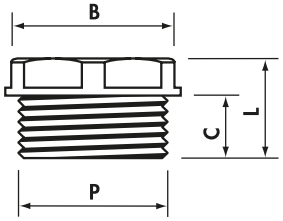
BSP thread ISO 228/1

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1830	G1/4″	8,5	15	8,5	13,5	800/100
*1831	G3/8″	11,5	17	9,0	14,0	300/100
*1832**	G1/2″	13,0	21	11,0	16,5	300/100

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1835	M16x1,5	11,5	17	9	14,0	400/100
*1836**	M20x1,5	13,5	21	11	16,5	300/100

***Add to Ref: N for Black**



Blind entry bushes

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1702.5**	Pg13,5	–	21	11,0	17,0	300/100
1703.5	Pg16	–	23	12,5	18,5	200/100

BSP thread ISO 228/1

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1861	G3/8″	–	17	9	14	600/100
*1862**	G1/2″	–	21	11	16,5	200/100

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1866**	M20x1,5	–	21	11	17	100

***Add to Ref: N for Black**

ENTRY PLUGS

Nickel Plated Brass

2053
2052



BRASS | 3µm NICKEL PLATED | IP54 | IP68 * | -40°C +100°C | c UL us File no. E220310

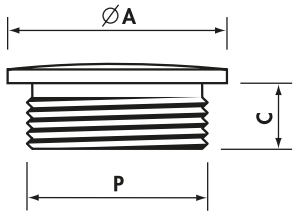
Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
–40°C to +100°C (static)
–25°C to +100°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	ØA (mm)	C (mm)	Quantity Box/Bag
2053M12N	M12x1,5	14	5,0	1.500/100
2053M16N	M16x1,5	18	5,0	1.000/100
2053M20N	M20x1,5	22	6,5	400/100
2053M25N	M25x1,5	28	7,0	200/100
2053M32N	M32x1,5	35	8,0	150/25
2053M40N	M40x1,5	44	8,5	100/25
2053M50N	M50x1,5	54	9,0	50/25
2053M63N	M63x1,5	67	10,0	25/25

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Nickel Plated Brass	P	ØA (mm)	C (mm)	Quantity Box/Bag
2052007N	Pg 7	14	5,0	1.500/100
2052009N	Pg 9	17	6,0	1.000/100
2052011N	Pg11	20	6,0	500/100
2052013N	Pg13,5	22	6,5	500/100
2052016N	Pg16	24	6,5	500/100
2052021N	Pg21	30	7,0	200/50
2052029N	Pg29	39	8,0	100/25
2052036N	Pg36	50	9,0	50/25
2052042N	Pg42	57	10,0	25/25
2052048N	Pg48	64	10,0	25/25



ENTRY BUSHES

Brass

2021

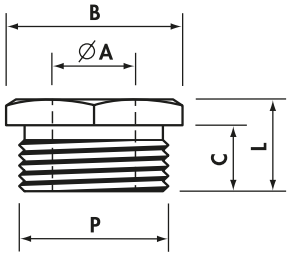


BRASS | 3µm NICKEL PLATED | -25°C +100°C

Material: NICKEL PLATED BRASS

BSP thread ISO 228/1

Type Brass	P	ØA (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
2021014N	G1/4"	10,0	13	6,0	8,5	1.000/100
2021038N	G3/8"	12,0	17	7,5	10,5	800/100
2021012N	G1/2"	16,0	21	9,5	13,0	400/100
2021058N	G5/8"	18,0	23	10,0	13,5	250/50
2021034N	G3/4"	21,0	27	10,0	14,0	200/50
2021100N	G1"	26,5	34	11,0	15,5	100/50
2021118N	G1"1/8	31,0	38	12,0	16,5	100/25
2021114N	G1"1/4	35,0	42	13,0	18,0	50/25
2021112N	G1"1/2	41,5	48	13,0	18,5	50/25
2021200N	G2"	51,5	60	13,5	19,5	25/25



CEMBRE

RS

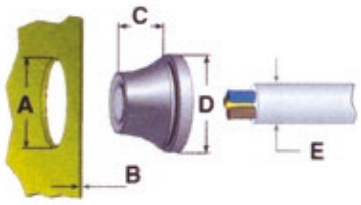
GROMMETS

Rubber EPDM



EPDM | IP67 | -40°C +110°C | CE | UKCA | HF HALOGEN FREE

Material: Rubber EPDM halogen-free and chemical resistant
Temperature range:
–40°C to +110°C
Protection: IP 67
Colour: RAL 7001 light grey
Application:
IP67 sealing of cables and conduits in Metric and Pg threaded entries through material thickness 0,5-4 mm



Fits Metric thread

Type	Fits Threaded Entry	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Quantity Box/Bag
RS0407.M12	M12	12,5	0,5 - 2	5,6	20,0	4 - 7	4000/50
RS0509.M16	M16	16,5	1 - 4	11,0	21,0	5 - 9	4000/50
RS0813.M20	M20/Pg13,5	20,5	1 - 4	13,4	25,5	8 - 13	2000/50
RS1117.M25	M25	25,5	1 - 4	15,3	30,5	11 - 17	1500/50
RS1520.M32*	M32	32,5	1 - 4	18,6	38,5	15 - 20	750/25
RS1928.M40	M40	40,5	1 - 4	21,7	48,5	19 - 28	400/25
RS2735.M50*	M50	50,5	1 - 4	25,0	60,5	27 - 35	250/10

***Add to Ref: N for Black**

Fits Pg thread

Type	Fits Threaded Entry	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Quantity Box/Bag
RS0305.07	Pg 7	12,5	0,5 - 2	5,4	20,0	3 - 5	4000/50
RS0507.09	Pg 9	16,0	1 - 4	10,3	21,0	5 - 7	4000/50
RS0710.11	Pg11	19,0	1 - 4	12,7	24,0	7 - 10	2000/50
RS1014.16	Pg16	23,0	1 - 4	14,7	28,0	10 - 14	1500/50
RS1420.21	Pg21	29,0	1 - 4	17,6	35,0	14 - 20	750/25
RS2026.29	Pg29	38,0	1 - 4	20,0	46,0	20 - 26	400/25
RS2635.36	Pg36	48,0	1 - 4	23,9	58,0	26 - 35	250/10

3600

MODULAR RETAINING CLIPS

ABS

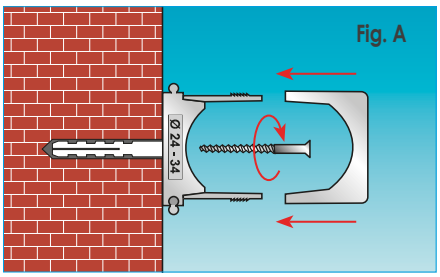


SICURclips

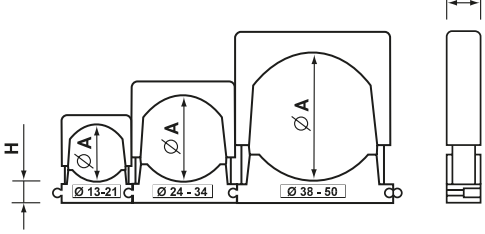
ABS | V2 UL94 | -20°C +80°C

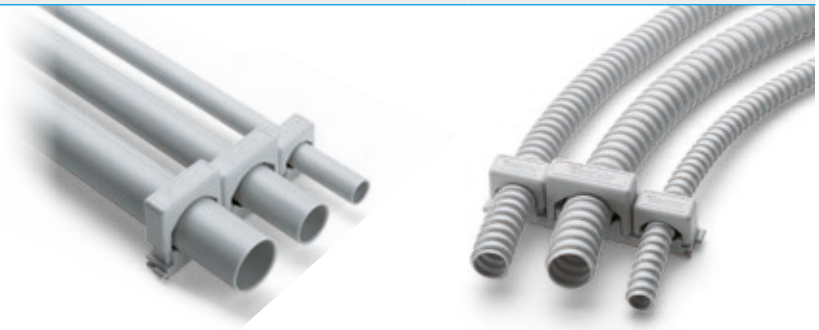
Material: ABS self-extinguishing class V0 (UL94) UV stabilised
Glow wire resistance:
750° C (CEI EN 60695-2-1)
Temperature range:
–20°C to +80°C (dynamic)
Colour: RAL 7035 light grey

Application: Fix SICURclip base to surface using dia. 5 - 6 mm screw (Ref. Fig. A).
Insert cable, tubing or flexible conduit.
Fit adjustable cover and press to secure.
Modular SICURclips of the same or different size may easily be joined together.



Type	Ø A min-max (mm)	H (mm)	S (mm)	Quantity
3601	13-21	8,5	16	100
3602	24-34	8,5	16	50
3603	38-50	8,5	16	25





SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES AND ACCESSORIES



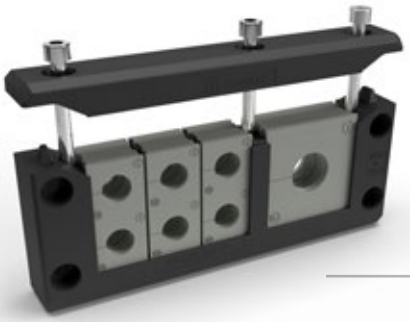
LOTS OF GREAT REASONS FOR CHOOSING EWO

- **Plug & Fix:** quick installation on predetermined cables for signal distribution, sensors and power supply
- **Easy to use:** frame can be fitted after laying the cables, which can also be secured with grommets in the final phase of machine wiring
- **For industrial automation:** ideal for applications in industrial automation, for cable management on the machine
- **Safety without compromise:** extremely safe and protected (IP66) even without an additional external seal
- **Grommets are perfectly enclosed by the frame,** with no protrusions, ensuring IP66 protection and cable sealing in accordance with EN62444

Extremely safe and protected (IP66) thanks to the special overmoulded seal which does not require an external seal



Frame can be fitted after laying the cables, which can also be secured with grommets in the final phase of machine wiring





Quick installation on predetermined cables for signal distribution, sensors and power supply



Ideal for applications in industrial automation, for cable management on the machine



Slim and space-saving thanks to the compact design and the absence of an external seal.



SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

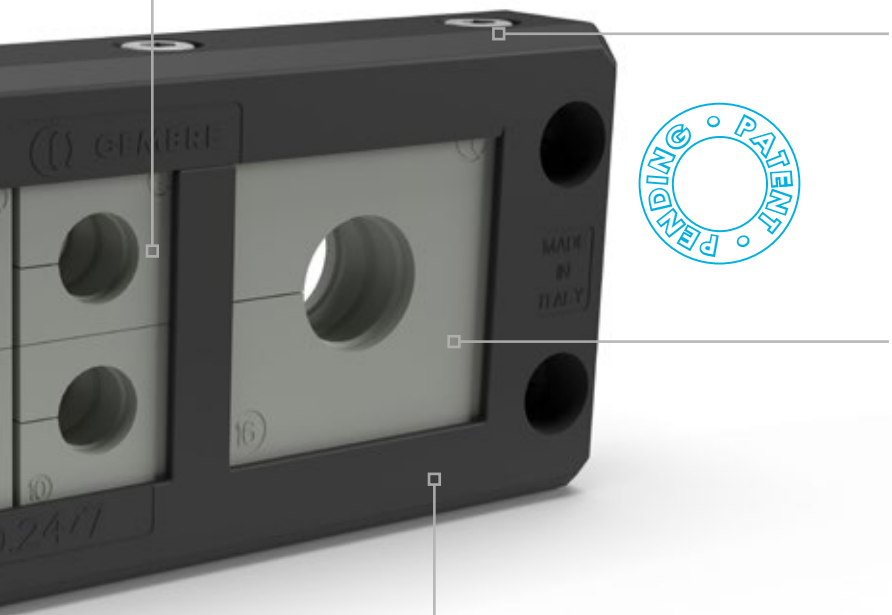
general specifications

- **Slim and space-saving** thanks to the compact design and the absence of an external seal (available as an accessory)
- **Fast and flexible screw fastening:** anti-fall system for easier installation
- **Frame fixing system** using screws on nuts, deep-drawn holes or rivets
- **High quality material:** reinforced PA6.6 fibreglass frame with stainless steel screws and clamping nuts
- **180° of simplicity:** grommets can be mounted freely, without having to be locked in place, and without worrying about the direction of installation

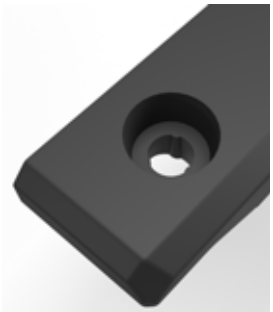
EWO® EASY WIRE ORGANIZER

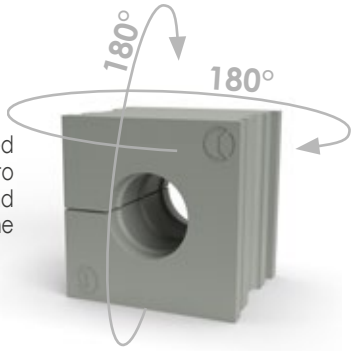
Grommets are perfectly enclosed by the frame, without protrusions, ensuring IP66 protection and cable sealing in accordance with EN62444





Fast and flexible screw fastening: anti-fall system for easier installation





Grommets can be mounted freely, without having to be locked in place, and without worrying about the direction of installation

Frame fixing system using screws on nuts, deep-drawn holes or rivets



Reinforced PA6.6 fibreglass frame stainless steel screws and clamping nuts

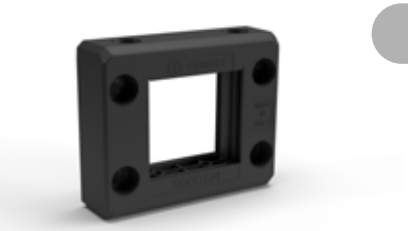


CEMBRE

9000.Q

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

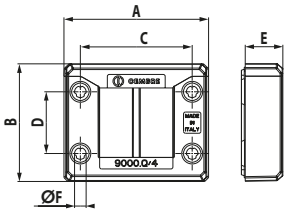
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal



EWO® EASY WIRE ORGANIZER

PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | EN 45545-3 | UL / NEMA 12 | UL / NEMA 4X | UL / NEMA 1 | c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

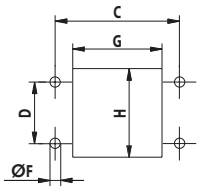


Diagram (grommets not included)





Marking/Approvals

RoHS COMPLIANT 2011/65/EU | CE | UK CA | RINA

RoHS COMPLIANT 2011/65/EU | CE | UK CA | RINA

Type		
Black (RAL 9005) ■	**9000.Q/4**	**9000.Q/1**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	75 mm	75 mm
B	61 mm	61 mm
C	58 mm	58 mm
D	32 mm	32 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	43 mm	43 mm
H	43 mm	43 mm
Weight	44 g	42 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	4	-
Number of large grommets, type B	-	1
Certifications		
UL/NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.Q	9006.Q
Grommets	4 x type A	1 x type B
Punching set CEMBRE*	RD43X43	RD43X43

*see page 305, 343

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

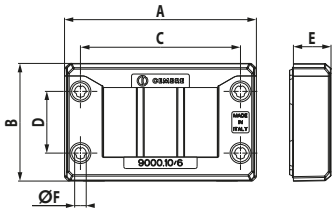
9000.10

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

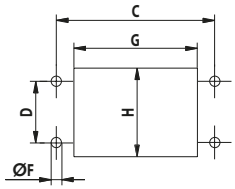
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | EN 45545-3 | UL / NEMA 12 | UL / NEMA 4X | UL / NEMA 1 | c UL us File no. E535849

Diagram (grommets not included)





Marking/Approvals

RoHS COMPLIANT 2011/65/EU CE UK CA RINA

RoHS COMPLIANT 2011/65/EU CE UK CA RINA

Type		
Black (RAL 9005) ■	**9000.10/6**	**9000.10/3**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	99.5 mm	99.5 mm
B	61 mm	61 mm
C	83 mm	83 mm
D	32 mm	32 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	65 mm	65 mm
H	36/46 mm	36/46 mm
Weight	56 g	54 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	6	2
Number of large grommets, type B	-	1
Certifications		
UL/NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.10	9006.10
Grommets	6 x type A	2 x type A and 1 x type B
Punching set CEMBRE*	RD46X65 ; RD36X65	RD46X65 ; RD36X65

*see page 305, 343

9000.16

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

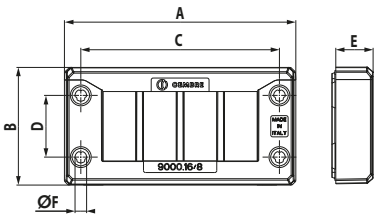


EWO® EASY WIRE ORGANIZER

PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | EN 45545-3 | UL / NEMA 12 | UL / NEMA 4X | UL / NEMA 1

c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

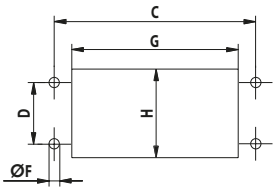
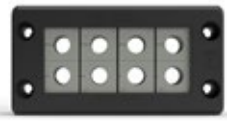
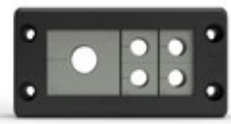


Diagram (grommets not included)			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA RINA	RoHS COMPLIANT 2011/65/EU CE UKCA RINA	RoHS COMPLIANT 2011/65/EU CE UKCA RINA
Type			
Black (RAL 9005) ■	**9000.16/8**	**9000.16/5**	**9000.16/2**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	120 mm	120 mm	120 mm
B	61 mm	61 mm	61 mm
C	103 mm	103 mm	103 mm
D	32 mm	32 mm	32 mm
E	19.5 mm	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	86 mm	86 mm	86 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	62 g	60 g	58 g
Material Specifications			
Frame material	PA6.6 + GF	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Number of small grommets, type A	8	4	-
Number of large grommets, type B	-	1	2
Certifications			
UL/NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E	50E
UL file number	E535849	E535849	E535849
Cable clamping according to EN 62444	YES	YES	YES
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.16	9006.16	9006.16
Grommets	8 x type A	4 x type A and 1 x type B	2 x type B
Punching set CEMBRE*	RD46X86 ; RD36X86	RD46X86 ; RD36X86	RD46X86 ; RD36X86

*see page 305, 343

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

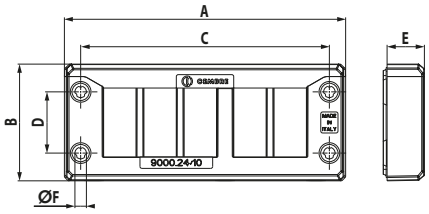
9000.24

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

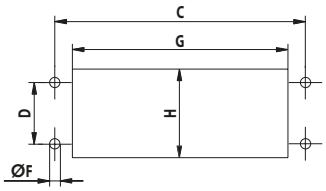
EWO®
EASY WIRE ORGANIZER



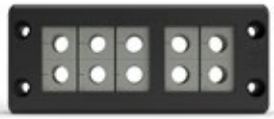
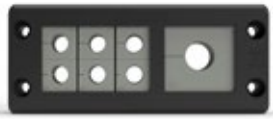
Cable entry system dimensions



Metal plate perforation dimensions



PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | EN 45545-3 | UL / NEMA 12 | UL / NEMA 4X | UL / NEMA 1 | c UL us File no. E535849

Diagram (grommets not included)			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA RINA	RoHS COMPLIANT 2011/65/EU CE UKCA RINA	RoHS COMPLIANT 2011/65/EU CE UKCA RINA
Type			
Black (RAL 9005) ■	**9000.24/10**	**9000.24/7**	**9000.24/4**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	147 mm	147 mm	147 mm
B	61 mm	61 mm	61 mm
C	130 mm	130 mm	130 mm
D	32 mm	32 mm	32 mm
E	19.5 mm	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	112 mm	112 mm	112 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	75 g	73 g	71 g
Material Specifications			
Frame material	PA6.6 + GF	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Number of small grommets, type A	10	6	2
Number of large grommets, type B	-	1	2
Certifications			
UL/NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E	50E
UL file number	E535849	E535849	E535849
Cable clamping according to EN 62444	YES	YES	YES
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.24	9006.24	9006.24
Grommets	10 x type A	6 x type A and 1 x type B	2 x type A and 2 x type B
Punching set CEMBRE*	RD46X112 ; RD36X112	RD46X112 ; RD36X112	RD46X112 ; RD36X112

*see page 305, 343

9000.R

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

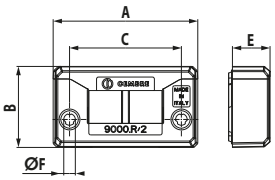
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal



EWO EASY WIRE ORGANIZER

PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | EN 45545-3 | UL / NEMA 12 | UL / NEMA 4X | UL / NEMA 1 | c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

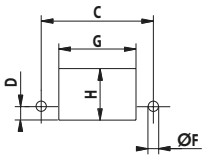


Diagram (grommets not included)





Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA RINA	RoHS COMPLIANT 2011/65/EU CE UKCA RINA
Type		
Black (RAL 9005) ■	**9000.R/2**	**9000.R/3**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	75 mm	99.5 mm
B	42 mm	42 mm
C	58 mm	83 mm
D	5 mm	5 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	43 mm	65 mm
H	24 mm	24 mm
Weight	32 g	41 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	2	3
Number of large grommets, type B	-	-
Certifications		
UL/NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.R2	9006.R3
Grommets	2 x type A	3 x type A
Punching set CEMBRE*	RD24X43	RD24X65

*see page 305, 343

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

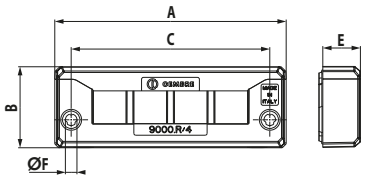
9000.R

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

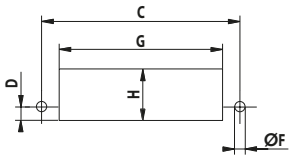
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | EN 45545-3 | UL / NEMA 12 | UL / NEMA 4X | UL / NEMA 1 | c UL us File no. E535849

Diagram (grommets not included)





Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA RINA	RoHS COMPLIANT 2011/65/EU CE UK CA RINA
Type		
Black (RAL 9005) ■	**9000.R/4**	**9000.R/5**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	120 mm	147 mm
B	42 mm	42 mm
C	103 mm	130 mm
D	5 mm	5 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	86 mm	112 mm
H	24 mm	24 mm
Weight	46 g	56 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	4	5
Number of large grommets, type B	-	-
Certifications		
UL/NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.R4	9006.R5
Grommets	4 x type A	5 x type A
Punching set CEMBRE*	RD24X86	RD24X112

*see page 305, 343

9100.M25

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

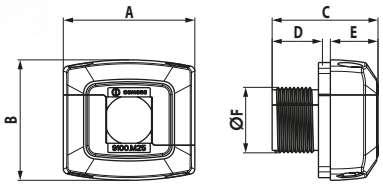
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal



EWO EASY WIRE ORGANIZER

PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | NEMA 1 | c UL us File no. E535849 *

Cable entry system dimensions



Metal plate perforation dimensions

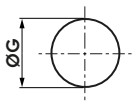


Diagram (grommets not included)



Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA

Type	
Grey (RAL 7035)	**9100.M25**
Black (RAL 9005)	**9100.M25N**
Units in standard packaging	10
Units in minimum packaging	10

Dimensions and Weights	
A	50.0 mm
B	45.5 mm
C	40 mm
D	19 mm
E	18 mm
ØF	M25X1.5
ØG	25.4 mm
Weight	63 g

Material Specifications	
Frame material	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2

Technical Specifications	
Silicon free	YES
Halogen free	YES
ISO 4892-2A	YES
ROHS compliant	YES
Self-extinguishing class (UL 94)	V0
Temperature range (static)	–40°C to +140°C
IP rating (EN 60529)	IP 66
Number of small grommets, type A	1
Number of large grommets, type B	-
Counter nut included	1143M25

Certifications	
NEMA performance	12, 4X indoor, 1
UL Standard	50E
UL file number	*Pending
Cable clamping according to EN 62444	YES

Accessories upon request	
Grommets	1 x type A
Punching set CEMBRE**	RD25.4SS
Split bushing	9110.M25 ; 9110.M25N

**see page 305, 343

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

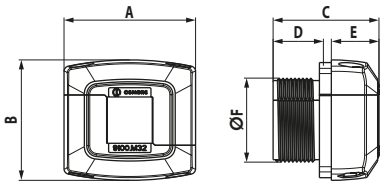
9100.M32

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

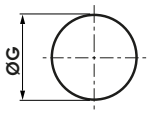
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | NEMA 1 | cULus File no. E535849 *

Diagram (grommets not included)



Marking/Approvals

RoHS COMPLIANT 2011/65/EU | CE | UK CA

Type	
Grey (RAL 7035)	**9100.M32**
Black (RAL 9005)	**9100.M32N**
Units in standard packaging	10
Units in minimum packaging	10

Dimensions and Weights	
A	50.0 mm
B	45.5 mm
C	40 mm
D	19 mm
E	18 mm
ØF	M32X1.5
ØG	32.5 mm
Weight	66 g

Material Specifications	
Frame material	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2

Technical Specifications	
Silicon free	YES
Halogen free	YES
ISO 4892-2A	YES
ROHS compliant	YES
Self-extinguishing class (UL 94)	V0
Temperature range (static)	–40°C to +140°C
IP rating (EN 60529)	IP 66
Number of small grommets, type A	1
Number of large grommets, type B	-
Counter nut included	1143M32

Certifications	
NEMA performance	12, 4X indoor, 1
UL Standard	50E
UL file number	*Pending
Cable clamping according to EN 62444	YES

Accessories upon request	
Grommets	1 x type A
Punching set CEMBRE**	RD32.5SS
Split bushing	9110.M32 ; 9110.M32N

**see page 305, 343

9100.M50

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

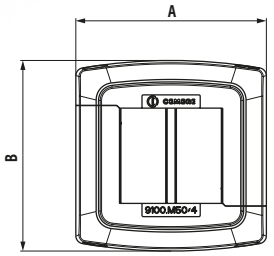
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

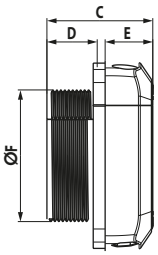
EWO EASY WIRE ORGANIZER



PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | NEMA 1 | c UL us File no. E535849 *

Cable entry system dimensions





Metal plate perforation dimensions

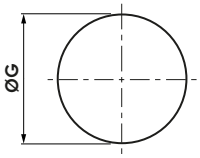


Diagram (grommets not included)





Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type		
Grey (RAL 7035)	**9100.M50/1**	**9100.M50/4**
Black (RAL 9005)	**9100.M50/1N**	**9100.M50/4N**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	72 mm	72 mm
B	72 mm	72 mm
C	40 mm	40 mm
D	19 mm	19 mm
E	18 mm	18 mm
ØF	M50X1.5	M50X1.5
ØG	50.5 mm	50.5 mm
Weight	118 g	120 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	-	4
Number of large grommets, type B	1	-
Counter nut included	1143M50	1143M50
Certifications		
NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E
UL file number	*Pending	*Pending
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Grommets	1 x type B	4 x type A
Punching set CEMBRE**	RD50.5SS	RD50.5SS
Split bushing	9110.M50 ; 9110.M50N	9110.M50 ; 9110.M50N

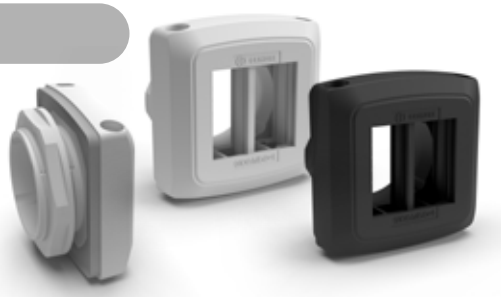
**see page 305, 343

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

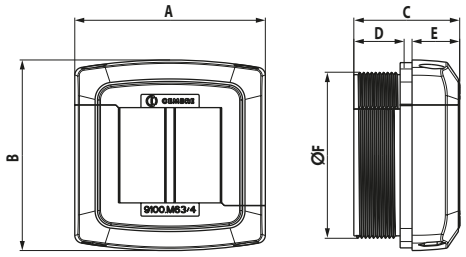
9100.M63

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

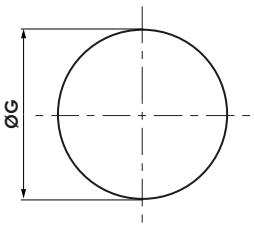
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | NEMA 1 | cULus File no. E535849 *

Diagram (grommets not included)		
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA
Type		
Grey (RAL 7035)	**9100.M63/1**	**9100.M63/4**
Black (RAL 9005)	**9100.M63/1N**	**9100.M63/4N**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	72 mm	72 mm
B	72 mm	72 mm
C	40 mm	40 mm
D	19 mm	19 mm
E	18 mm	18 mm
ØF	M63X1.5	M63X1.5
ØG	64 mm	64 mm
Weight	126 g	128 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	-	4
Number of large grommets, type B	1	-
Counter nut included	1143M63	1143M63
Certifications		
NEMA performance	12, 4X indoor, 1	12, 4X indoor, 1
UL Standard	50E	50E
UL file number	*Pending	*Pending
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Grommets	1 x type B	4 x type A
Punching set CEMBRE**	RD64SS	RD64SS
Split bushing	9110.M63 ; 9110.M63N	9110.M63 ; 9110.M63N

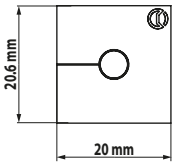
**see page 305, 343

9.A1D

GROMMETS FOR SPLIT CABLE ENTRY SYSTEMS

in Thermoplastic elastomer (TPE) - Type A small





EWO® EASY WIRE ORGANIZER

TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · UL / NEMA 12 · UL / NEMA 4X · UL / NEMA 1 · c UL us File no. E535849

RoHS COMPLIANT 2011/65/EU · CE · UKCA · RINA

Diagram	Type A	Colour	No. Holes	Hole Position	Cable diameter mm	Weight g	*Standard/minimum* packaging
	**9.AD0**	Grey	0	-	-	7.0	*100/10*
	9.AD0N	Black	0	-	-	7.0	*100/10*
	**9.A1D1**	Grey	1	Central	1-2	7.0	*100/10*
	9.A1D1N	Black	1	Central	1-2	7.0	*100/10*
	9.A1D2	Grey	1	Central	2-3	6.9	*100/10*
	9.A1D2N	Black	1	Central	2-3	6.9	*100/10*
	**9.A1D3**	Grey	1	Central	3-4	6.9	*100/10*
	9.A1D3N	Black	1	Central	3-4	6.9	*100/10*
	9.A1D4	Grey	1	Central	4-5	6.8	*100/10*
	9.A1D4N	Black	1	Central	4-5	6.8	*100/10*
	**9.A1D5**	Grey	1	Central	5-6	6.6	*100/10*
	9.A1D5N	Black	1	Central	5-6	6.6	*100/10*
	9.A1D6	Grey	1	Central	6-7	6.4	*100/10*
	9.A1D6N	Black	1	Central	6-7	6.4	*100/10*
	**9.A1D7**	Grey	1	Central	7-8	6.2	*100/10*
	9.A1D7N	Black	1	Central	7-8	6.2	*100/10*
	9.A1D8	Grey	1	Central	8-9	6.0	*100/10*
	9.A1D8N	Black	1	Central	8-9	6.0	*100/10*
	**9.A1D9**	Grey	1	Central	9-10	5.8	*100/10*
	9.A1D9N	Black	1	Central	9-10	5.8	*100/10*
	9.A1D10	Grey	1	Central	10-11	5.5	*100/10*
	9.A1D10N	Black	1	Central	10-11	5.5	*100/10*
	**9.A1D11**	Grey	1	Central	11-12	5.2	*100/10*
	9.A1D11N	Black	1	Central	11-12	5.2	*100/10*
	9.A1D12	Grey	1	Central	12-13	4.8	*100/10*
	9.A1D12N	Black	1	Central	12-13	4.8	*100/10*
	**9.A1D13**	Grey	1	Central	13-14	4.4	*100/10*
	9.A1D13N	Black	1	Central	13-14	4.4	*100/10*
	9.A1D14	Grey	1	Central	14-15	4.0	*100/10*
	9.A1D14N	Black	1	Central	14-15	4.0	*100/10*
	**9.A1D15**	Grey	1	Central	15-16	3.6	*100/10*
	9.A1D15N	Black	1	Central	15-16	3.6	*100/10*
	9.A1D16	Grey	1	Central	16-16.5	3.4	*100/10*
	9.A1D16N	Black	1	Central	16-16.5	3.4	*100/10*
	**9.A1D17**	Grey	1	Central	16.5-17	3.2	*100/10*
	9.A1D17N	Black	1	Central	16.5-17	3.2	*100/10*

Material: THERMOPLASTIC ELASTOMER (TPE)
self-extinguishing cl. V0 (UL 94)
Operating temperature range:
–40°C to +100°C (static)
Colour:
- grey RAL 7004
- black RAL 9005

Application range:
suitable for housing and clamping even pre-wired cables, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**
To be inserted into the seats of the frames.

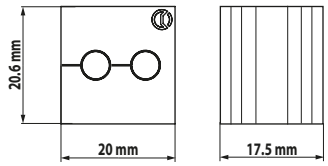
Certifications:
- UL/NEMA performance: 12, 4X indoor, 1
- UL Standard: 50E
- UL file number: E535849
- Cable clamping according to EN 62444

GROMMETS FOR SPLIT CABLE ENTRY SYSTEMS

9.A2D

in Thermoplastic elastomer (TPE) - Type A small

EWO® EASY WIRE ORGANIZER

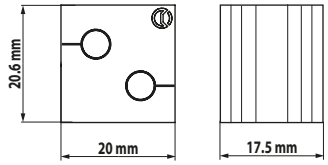




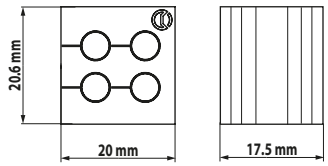
RoHS COMPLIANT 2011/65/EU CE UK CA RINA

TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · UL / NEMA 12 · UL / NEMA 4X · UL / NEMA 1 · c UL us File no. E535849

Diagram	Type A	Colour	No. Holes	Hole Position	Cable diameter mm	Weight g	*Standard/minimum* packaging
	**9.A2D2**	Grey	2	2 X Standard	2-3	6.9	*100/10*
	9.A2D2N	Black	2	2 X Standard	2-3	6.9	*100/10*
	9.A2D3	Grey	2	2 X Standard	3-4	6.7	*100/10*
	9.A2D3N	Black	2	2 X Standard	3-4	6.7	*100/10*
	**9.A2D4**	Grey	2	2 X Standard	4-5	6.5	*100/10*
	9.A2D4N	Black	2	2 X Standard	4-5	6.5	*100/10*
	9.A2D5	Grey	2	2 X Standard	5-6	6.2	*100/10*
	9.A2D5N	Black	2	2 X Standard	5-6	6.2	*100/10*
	**9.A2D6**	Grey	2	2 X Standard	6-7	5.9	*100/10*
	9.A2D6N	Black	2	2 X Standard	6-7	5.9	*100/10*



	**9.A2D7**	Grey	2	2 X Oblique	7-8	5.5	*100/10*
	9.A2D7N	Black	2	2 X Oblique	7-8	5.5	*100/10*
	9.A2D8	Grey	2	2 X Oblique	8-9	5.0	*100/10*
	9.A2D8N	Black	2	2 X Oblique	8-9	5.0	*100/10*



	**9.A4D2**	Grey	4	4 X Standard	2-3	6.7	*100/10*
	9.A4D2N	Black	4	4 X Standard	2-3	6.7	*100/10*
	9.A4D3	Grey	4	4 X Standard	3-4	6.4	*100/10*
	9.A4D3N	Black	4	4 X Standard	3-4	6.4	*100/10*
	**9.A4D4**	Grey	4	4 X Standard	4-5	6.0	*100/10*
	9.A4D4N	Black	4	4 X Standard	4-5	6.0	*100/10*
	9.A4D5	Grey	4	4 X Standard	5-6	5.4	*100/10*
	9.A4D5N	Black	4	4 X Standard	5-6	5.4	*100/10*
	**9.A4D6**	Grey	4	4 X Standard	6-7	4.7	*100/10*
	9.A4D6N	Black	4	4 X Standard	6-7	4.7	*100/10*

Material: THERMOPLASTIC ELASTOMER (TPE)
self-extinguishing cl. V0 (UL 94)
Operating temperature range:
–40°C to +100°C (static)
Colour:
- grey RAL 7004
- black RAL 9005

Application range:
suitable for housing and clamping even pre-wired cables, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**
To be inserted into the seats of the frames.

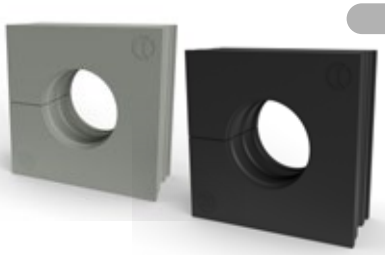
Certifications:
- UL/NEMA performance: 12, 4X indoor, 1
- UL Standard: 50E
- UL file number: E535849
- Cable clamping according to EN 62444

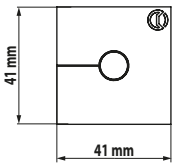
CEMBRE

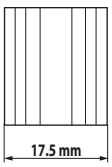
9.B1D

GROMMETS FOR SPLIT CABLE ENTRY SYSTEMS

in Thermoplastic elastomer (TPE) - Type B large







EWO® EASY WIRE ORGANIZER

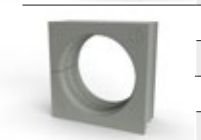
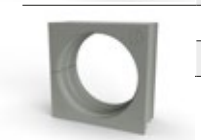
TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · UL / NEMA 12 · UL / NEMA 4X · UL / NEMA 1 · c UL us File no. E535849

RoHS COMPLIANT 2011/65/EU · CE · UKCA · RINA

Material: THERMOPLASTIC ELASTOMER (TPE)
self-extinguishing cl. V0 (UL 94)
Operating temperature range:
–40°C to +100°C (static)
Colour:
- grey RAL 7004
- black RAL 9005

Application range:
suitable for housing and clamping even pre-wired cables, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**
To be inserted into the seats of the frames.

Certifications:
- UL/NEMA performance: 12, 4X indoor, 1
- UL Standard: 50E
- UL file number: E535849
- Cable clamping according to EN 62444

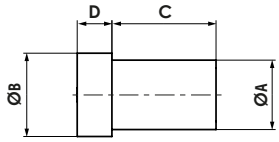
Diagram	Type B	Colour	No. Holes	Hole Position	Cable diameter mm	Weight g	*Standard/minimum packaging*
	**9.BD0**	Grey	0	-	-	30	*30/10*
	9.BD0N	Black	0	-	-	30	*30/10*
	**9.B1D16**	Grey	1	Central	16-17	26	*30/10*
	9.B1D16N	Black	1	Central	16-17	26	*30/10*
	9.B1D17	Grey	1	Central	17-18	25	*30/10*
	9.B1D17N	Black	1	Central	17-18	25	*30/10*
	**9.B1D18**	Grey	1	Central	18-19	25	*30/10*
	9.B1D18N	Black	1	Central	18-19	25	*30/10*
	9.B1D19	Grey	1	Central	19-20	24	*30/10*
	9.B1D19N	Black	1	Central	19-20	24	*30/10*
	**9.B1D20**	Grey	1	Central	20-21	24	*30/10*
	9.B1D20N	Black	1	Central	20-21	24	*30/10*
	9.B1D21	Grey	1	Central	21-22	23	*30/10*
	9.B1D21N	Black	1	Central	21-22	23	*30/10*
	**9.B1D22**	Grey	1	Central	22-23	22	*30/10*
	9.B1D22N	Black	1	Central	22-23	22	*30/10*
	9.B1D23	Grey	1	Central	23-24	22	*30/10*
	9.B1D23N	Black	1	Central	23-24	22	*30/10*
	**9.B1D24**	Grey	1	Central	24-25	21	*30/10*
	9.B1D24N	Black	1	Central	24-25	21	*30/10*
	9.B1D25	Grey	1	Central	25-26	20	*30/10*
	9.B1D25N	Black	1	Central	25-26	20	*30/10*
	**9.B1D26**	Grey	1	Central	26-27	20	*30/10*
	9.B1D26N	Black	1	Central	26-27	20	*30/10*
	9.B1D27	Grey	1	Central	27-28	19	*30/10*
	9.B1D27N	Black	1	Central	27-28	19	*30/10*
	**9.B1D28**	Grey	1	Central	28-29	18	*30/10*
	9.B1D28N	Black	1	Central	28-29	18	*30/10*
	9.B1D29	Grey	1	Central	29-30	17	*30/10*
	9.B1D29N	Black	1	Central	29-30	17	*30/10*
	**9.B1D30**	Grey	1	Central	30-31	16	*30/10*
	9.B1D30N	Black	1	Central	30-31	16	*30/10*
	9.B1D31	Grey	1	Central	31-32	15	*30/10*
	9.B1D31N	Black	1	Central	31-32	15	*30/10*
	**9.B1D32**	Grey	1	Central	32-33	14	*30/10*
	9.B1D32N	Black	1	Central	32-33	14	*30/10*
	9.B1D33	Grey	1	Central	33-34	13	*30/10*
	9.B1D33N	Black	1	Central	33-34	13	*30/10*
	**9.B1D34**	Grey	1	Central	34-35	12	*30/10*
	9.B1D34N	Black	1	Central	34-35	12	*30/10*

BLINDPLUGS

in Polyamide PA6.6

9005.D

EWO® EASY WIRE ORGANIZER





PA 6.6 | IP66 | V0 UL94 | -40°C +100°C

Type	Colour	ØA mm	ØB mm	C mm	D mm	*Standard/minimum* packaging
9005.D2	White ☐	2	4	20	5	*250/25*
9005.D3	White ☐	3	5	20	5	*250/25*
9005.D4	White ☐	4	6	20	5	*250/25*
9005.D5	White ☐	5	7	20	5	*250/25*
9005.D6	White ☐	6	8	20	5	*250/25*
9005.D7	White ☐	7	9	20	5	*250/25*
9005.D8	White ☐	8	10	15	5	*250/25*
9005.D9	White ☐	9	11	15	5	*250/25*
9005.D10	White ☐	10	12	15	5	*250/25*
9005.D11	White ☐	11	13	15	5	*250/25*
9005.D12	White ☐	12	14	15	5	*250/25*
9005.D13	White ☐	13	15	15	5	*250/25*
9005.D14	White ☐	14	16	15	5	*250/25*
9005.D15	White ☐	15	17	15	5	*250/25*
9005.D16	White ☐	16	18	15	5	*250/25*
9005.D17	White ☐	17	19	15	5	*250/25*

Material: POLYAMIDE PA6.6
Operating temperature range:
–40°C to +100°C (static)
Colour: White

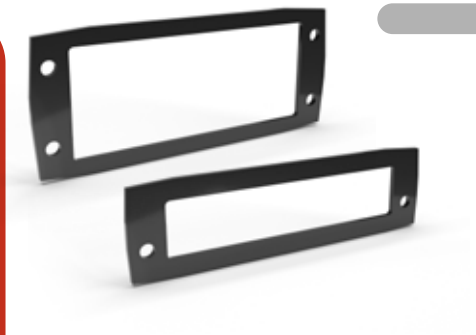
Application range:
suitable for closing unused grommet holes, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**

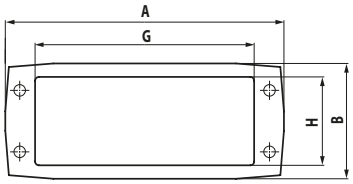
CEMBRE

9006

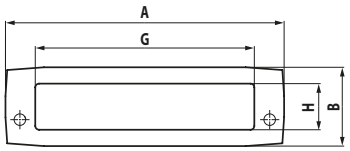
RECTANGULAR FLAT SEALS

in Nitrile butadiene NBR 70 sh





4 holes



2 holes

NBR IP66 -30°C +100°C

Material:
NITRILE BUTADIENE NBR 70 sh
Operating temperature range:
from –30°C to +100°C
Colour: black

Application range:
suitable for maintaining **IP 66 (EN 60529) protection rating on uneven walls.**

Type	For Cable Entry system Type	Holes	Colour	A mm	B mm	G mm	H mm	*Standard/minimum* packaging
9006.Q	**9000.Q**	**4**	Black ■	72	60	45	45	*100/10*
9006.10	**9000.10**	**4**	Black ■	98	60	67	46	*100/10*
9006.16	**9000.16**	**4**	Black ■	118	60	88	46	*100/10*
9006.24	**9000.24**	**4**	Black ■	145	60	114	46	*100/10*
9006.R/2	**9000.R/2**	**2**	Black ■	72	41	45	24	*100/10*
9006.R/3	**9000.R/3**	**2**	Black ■	98	41	67	24	*100/10*
9006.R/4	**9000.R/4**	**2**	Black ■	118	41	88	24	*100/10*
9006.R/5	**9000.R/5**	**2**	Black ■	145	41	114	24	*100/10*

INTUMESCENT GASKETS FOR FIRE BARRIERS

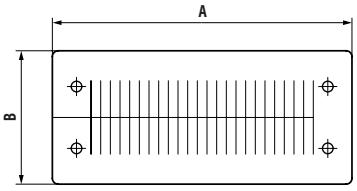
9007FR

in intumescent graphite-based material

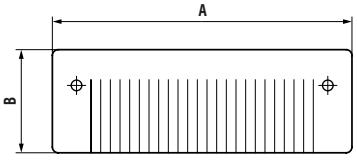
EWO® EASY WIRE ORGANIZER



Gasket dimensions

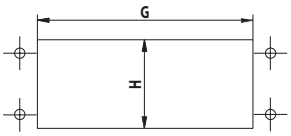


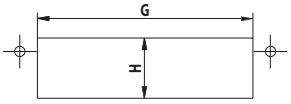
4 holes



2 holes

Metal plate perforation dimensions





Type	For Cable Entry system Type	Holes	Colour	A mm	B mm	G mm	H mm	*Standard/minimum* packaging
9007FR.Q	**9000.Q**	4	Dark grey	83	69	43	43	*50/10*
9007FR.10	**9000.10**	4	Dark grey	108	69	65	36/46	*50/10*
9007FR.16	**9000.16**	4	Dark grey	128	69	86	36/46	*50/10*
9007FR.24	**9000.24**	4	Dark grey	155	69	112	36/46	*50/10*
9007FR.R/2	**9000.R/2**	2	Dark grey	83	50	43	24	*50/10*
9007FR.R/3	**9000.R/3**	2	Dark grey	108	50	65	24	*50/10*
9007FR.R/4	**9000.R/4**	2	Dark grey	128	50	86	24	*50/10*
9007FR.R/5	**9000.R/5**	2	Dark grey	155	50	112	24	*50/10*

The seals are made of a flexible graphite-based intumescent material.
This material expands when exposed to high temperatures. A stable and compact foam is formed that quickly closes spaces and other openings.
This foam acts as a barrier and prevents the propagation of heat, fire and smoke.

Material:
INTUMESCENT graphite-based

Colour: Dark grey

Field of application:
the intumescent seals of the 9007FR series are used on EWO series frames **for fire protection according to EN45545-3**

adhesive intumescent seal on a roll (5000x18x2.5)

Type	For Cable Entry system Type	Colour	Number of Cable Entry that can be set up with 1 roll	*Standard/minimum* packaging
9007FR/ROLL	**9000.Q**	Dark grey	14 pcs	*1 roll (5 metres)*
	9000.10		12 pcs	
	9000.16		11 pcs	
	9000.24		10 pcs	
	9000.R/2		16 pcs	
	9000.R/3		14 pcs	
	9000.R/4		12 pcs	
	9000.R/5		11 pcs	

accessories on request

Accessories on request	Description	*Standard/minimum* packaging
Stainless steel screws for wall mounting	9001.M5X25	*40*
	9001.M5X35	*40*
	9001.M5X40	*40*
Stainless steel washers under the screw heads	9001.D5XL	*40*

CEMBRE

9020

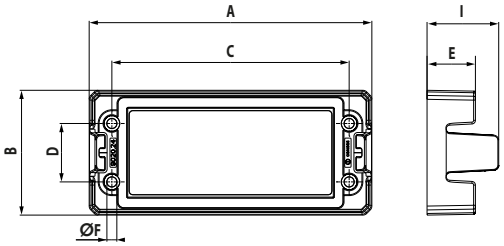
PUSH-FIT MOUNTS

in Polyphenylene PPE + Polystyrene PS

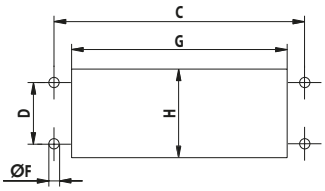


PPE · IP54 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE

Dimensions of push-fit mounts



Metal plate perforation dimensions



Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type				
Black (RAL 9005) ■	**9020.Q**	**9020.10**	**9020.16**	**9020.24**
Units in standard packaging	10	10	10	10
Units in minimum packaging	10	10	10	10
Dimensions and Weights				
A	83 mm	107 mm	128 mm	155 mm
B	68 mm	68 mm	68 mm	68 mm
C	58 mm	83 mm	103 mm	130 mm
D	32 mm	32 mm	32 mm	32 mm
E	26.5 mm	26.5 mm	26.5 mm	26.5 mm
ØF	5.5 mm	5.5 mm	5.5 mm	5.5 mm
G	43 mm	65 mm	86 mm	112 mm
H	43 mm	36/46 mm	36/46 mm	36/46 mm
I	39.3 mm	39.3 mm	39.3 mm	39.3 mm
Weight	60 g	72 g	80 g	91 g
Material Specifications				
Frame material	PPE + PS	PPE + PS	PPE + PS	PPE + PS
Integrated sale material	Nitrile butadiene NBR 70 sh	Nitrile butadiene NBR 70 sh	Nitrile butadiene NBR 70 sh	Nitrile butadiene NBR 70 sh
Technical Specifications				
Silicon free	YES	YES	YES	YES
Halogen free	YES	YES	YES	YES
ISO 4892-2A	YES	YES	YES	YES
ROHS compliant	YES	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 54	IP 54	IP 54	IP 54
Accessories upon request				
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20	9001.M5X20
Punching set CEMBRE*	RD43X43	RD46X65 ; RD36X65	RD46X86 ; RD36X86	RD46X112 ; RD36X112

*see page 305, 343

CLOSING PLATES WITH SCREWS

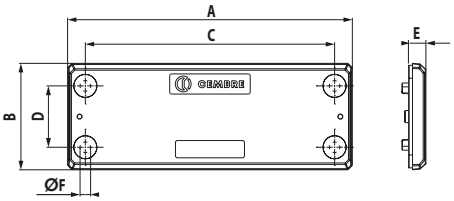
9010

made of glass-fibre reinforced Polypropylene

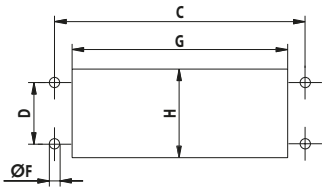
EWO® EASY WIRE ORGANIZER



Dimensions of closing plates



Metal plate perforation dimensions



PP | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE

Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA
Type				
Black (RAL 9005) ■	**9010.Q**	**9010.10**	**9010.16**	**9010.24**
Units in standard packaging	10	10	10	10
Units in minimum packaging	10	10	10	10
Dimensions and Weights				
A	76.5 mm	101.5 mm	121.5 mm	148.5 mm
B	55.5 mm	55.5 mm	55.5 mm	55.5 mm
C	58 mm	83 mm	103 mm	130 mm
D	32 mm	32 mm	32 mm	32 mm
E	9 mm	9 mm	9 mm	9 mm
ØF	5.5 mm	5.5 mm	5.5 mm	5.5 mm
G	43 mm	65 mm	86 mm	112 mm
H	43 mm	36/46 mm	36/46 mm	36/46 mm
Weight	23 g	30 g	35 g	41 g
Material Specifications				
Frame material	PP + GF	PP + GF	PP + GF	PP + GF
Black overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Technical Specifications				
Silicon free	YES	YES	YES	YES
Halogen free	YES	YES	YES	YES
ISO 4892-2A	YES	YES	YES	YES
ROHS compliant	YES	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66	IP 66	IP 66
Accessories upon request				
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20	9001.M5X20
Punching set CEMBRE*	RD43X43	RD46X65 ; RD36X65	RD46X86 ; RD36X86	RD46X112 ; RD36X112

*see page 305, 343

9010-SO

SNAP-ON CLOSING PLATES

made of glass-fibre reinforced Polypropylene

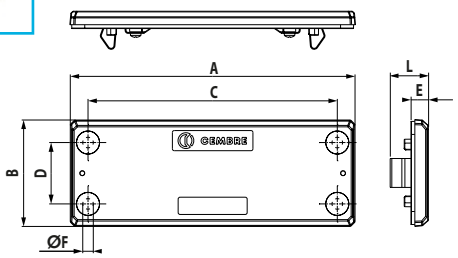




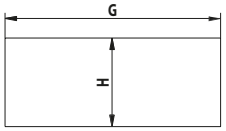
EWO EASY WIRE ORGANIZER

NEW · PP · IP54 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE

Dimensions of closing plates



Metal plate perforation dimensions



Marking/Approvals	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA
Type				
Black (RAL 9005) ■	**9010.Q-SO**	**9010.10-SO**	**9010.16-SO**	**9010.24-SO**
Units in standard packaging	10	10	10	10
Units in minimum packaging	10	10	10	10
Dimensions and Weights				
A	76.5 mm	101.5 mm	121.5 mm	148.5 mm
B	55.5 mm	55.5 mm	55.5 mm	55.5 mm
C	58 mm	83 mm	103 mm	130 mm
D	32 mm	32 mm	32 mm	32 mm
E	9 mm	9 mm	9 mm	9 mm
ØF	5.5 mm	5.5 mm	5.5 mm	5.5 mm
G	43 mm	65 mm	86 mm	112 mm
H	43 mm	36/46 mm	36/46 mm	36/46 mm
L	20 mm	20 mm	20 mm	20 mm
Weight	30 g	37 g	42 g	48 g
Material Specifications				
Frame material	PP + GF	PP + GF	PP + GF	PP + GF
Black overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Spring material	Inox	Inox	Inox	Inox
Technical Specifications				
Silicon free	YES	YES	YES	YES
Halogen free	YES	YES	YES	YES
ISO 4892-2A	YES	YES	YES	YES
ROHS compliant	YES	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 54	IP 54	IP 54	IP 54
Fastening on sheet metal thicknesses	1.5 to 4 mm	1.5 to 4 mm	1.5 to 4 mm	1.5 to 4 mm
Accessories upon request				
Punching set CEMBRE*	RD43X43	RD46X65 ; RD36X65	RD46X86 ; RD36X86	RD46X112 ; RD36X112

*see page 305, 343

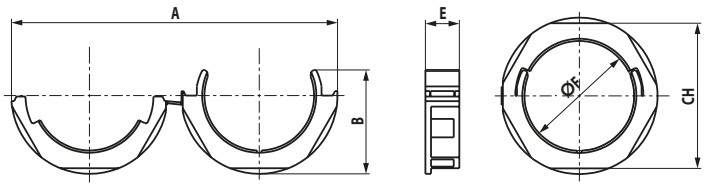
9110

SPLIT BUSHING FOR CIRCULAR SPLIT CABLE ENTRY SYSTEMS

in Polyamide PA6



PA 6 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE



Type	Colour	ØF mm	A mm	B mm	E mm	CH mm	Weight g	Standard/minimum packaging
9110.M25	Grey ■	M25x1.5	74	23	9	32	3	100/10
9110.M25N	Black ■	M25x1.5	74	23	9	32	3	100/10
9110.M32	Grey ■	M32x1.5	92	29	12	40	6	50/10
9110.M32N	Black ■	M32x1.5	92	29	12	40	6	50/10
9110.M50	Grey ■	M50x1.5	144	46	15	64	18	20/10
9110.M50N	Black ■	M50x1.5	144	46	15	64	18	20/10

CABLE ENTRY WITH MEMBRANE TWO-COMPONENT FOR UNMARKED CABLES SERIES 9200



CEMBRE

9200.Q

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

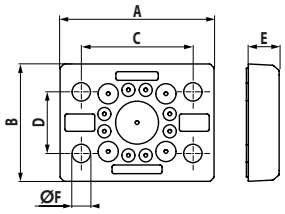
in glass fibre reinforced PP polypropylene + TPE elastomer



NEW · PP · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

EWO® EASY WIRE ORGANIZER

Cable entry system dimensions



Metal plate perforation dimensions

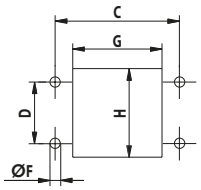
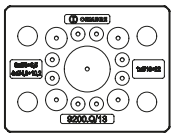
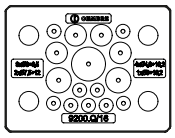
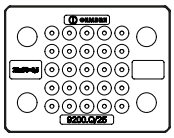


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9200.Q/13**	**9200.Q/16**	**9200.Q/25**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	80 mm	80 mm	80 mm
B	61 mm	61 mm	61 mm
C	58 mm	58 mm	58 mm
D	32 mm	32 mm	32 mm
E	16 mm	16 mm	16 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	43 mm	43 mm	43 mm
H	43 mm	43 mm	43 mm
Weight	60 g	60 g	60 g
Material Specifications			
Frame material	PP + GF	PP + GF	PP + GF
Overmoulded material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Total number of cables	13	16	25
Number of cables x cable Ø range	8 x Ø 3÷6.5 mm 4 x Ø 4.8÷10.2 mm 1 x Ø 16÷22 mm	9 x Ø 3÷6.5 mm 4 x Ø 4.8÷10.2 mm 2 x Ø 7.5÷12 mm 1 x Ø 9÷16.2 mm	25 x Ø 3÷6.5 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20
Punching set CEMBRE**	RD43X43	RD43X43	RD43X43

**see page 305, 343

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

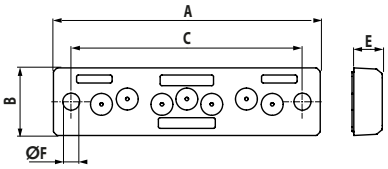
9200.R5

in glass fibre reinforced PP polypropylene + TPE elastomer

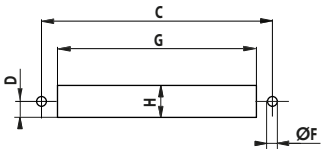
EWO® EASY WIRE ORGANIZER



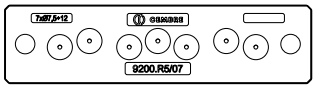
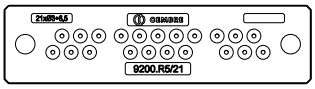
Cable entry system dimensions



Metal plate perforation dimensions



NEW · PP · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

Diagram		
Marking/Approvals	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA
Type		
Grey (RAL 7004)	**9200.R5/7**	**9200.R5/21**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	150 mm	150 mm
B	38 mm	38 mm
C	130 mm	130 mm
D	9/12 mm	9/12 mm
E	16 mm	16 mm
ØF	5.5 mm	5.5 mm
G	112 mm	112 mm
H	18/24 mm	18/24 mm
Weight	75 g	75 g
Material Specifications		
Frame material	PP + GF	PP + GF
Overmoulded material	TPE elastomer	TPE elastomer
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 66	IP 66
Total number of cables	7	21
Number of cables x cable Ø range	7 x Ø 7.5÷12 mm	21 x Ø 3÷6.5 mm
Certifications		
NEMA performance	12	12
UL Standard	50E	50E
UL file number	*Pending	*Pending
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
Punching set CEMBRE**	RD24X112	RD24X112

**see page 305, 343

9200.24

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

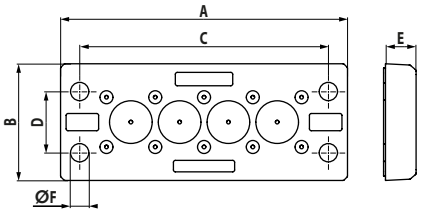
in glass fibre reinforced PP polypropylene + TPE elastomer



EWO® EASY WIRE ORGANIZER

NEW · PP · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

Cable entry system dimensions



Metal plate perforation dimensions

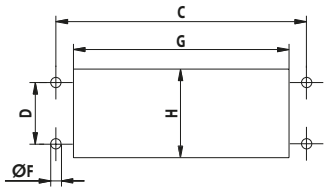
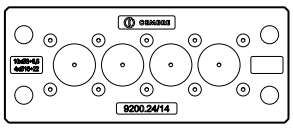
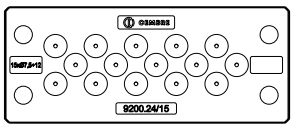
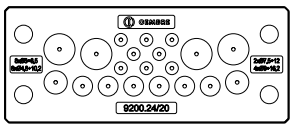


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9200.24/14**	**9200.24/15**	**9200.24/20**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	150 mm	150 mm	150 mm
B	61 mm	61 mm	61 mm
C	130 mm	130 mm	130 mm
D	32 mm	32 mm	32 mm
E	16 mm	16 mm	16 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	112 mm	112 mm	112 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	110 g	110 g	110 g
Material Specifications			
Frame material	PP + GF	PP + GF	PP + GF
Overmoulded material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Total number of cables	14	15	20
Number of cables x cable Ø range	10 x Ø 3÷6.5 mm 4 x Ø 16÷22 mm	15 x Ø 7.5÷12 mm	8 x Ø 3÷6.5 mm 6 x Ø 4.8÷10.2 mm 2 x Ø 7.5÷12 mm 4 x Ø 9÷16.2 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20
Punching set CEMBRE**	RD46X112 ; RD36X112	RD46X112 ; RD36X112	RD46X112 ; RD36X112

**see page 305, 343

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

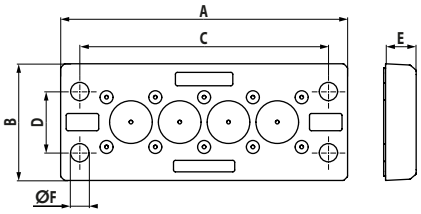
9200.24

in glass fibre reinforced PP polypropylene + TPE elastomer

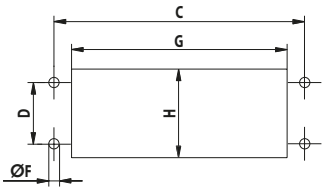
EWO® EASY WIRE ORGANIZER



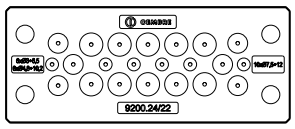
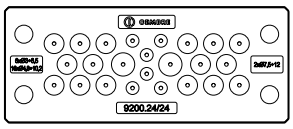
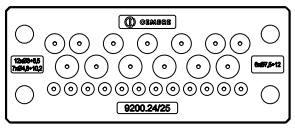
Cable entry system dimensions



Metal plate perforation dimensions



NEW · PP · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA
Type			
Grey (RAL 7004)	**9200.24/22**	**9200.24/24**	**9200.24/25**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	150 mm	150 mm	150 mm
B	61 mm	61 mm	61 mm
C	130 mm	130 mm	130 mm
D	32 mm	32 mm	32 mm
E	16 mm	16 mm	16 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	112 mm	112 mm	112 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	110 g	110 g	110 g
Material Specifications			
Frame material	PP + GF	PP + GF	PP + GF
Overmoulded material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Total number of cables	22	24	25
Number of cables x cable Ø range	6 x Ø 3÷6.5 mm 6 x Ø 4.8÷10.2 mm 10 x Ø 7.5÷12 mm	6 x Ø 3÷6.5 mm 16 x Ø 4.8÷10.2 mm 2 x Ø 7.5÷12 mm	12 x Ø 3÷6.5 mm 7 x Ø 4.8÷10.2 mm 6 x Ø 7.5÷12 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20
Punching set CEMBRE**	RD46X112 ; RD36X112	RD46X112 ; RD36X112	RD46X112 ; RD36X112

**see page 305, 343

9200.24

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

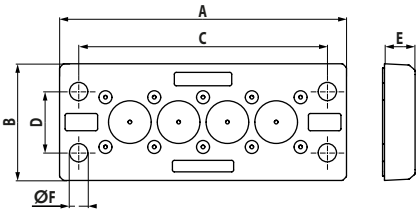
in glass fibre reinforced PP polypropylene + TPE elastomer



EWO® EASY WIRE ORGANIZER

NEW · PP · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

Cable entry system dimensions



Metal plate perforation dimensions

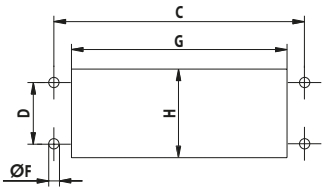
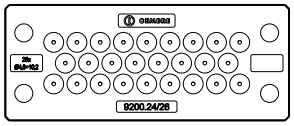
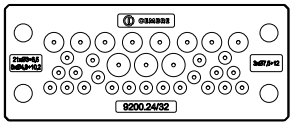
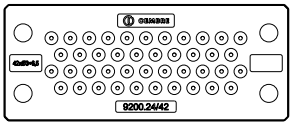


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9200.24/26**	**9200.24/32**	**9200.24/42**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	150 mm	150 mm	150 mm
B	61 mm	61 mm	61 mm
C	130 mm	130 mm	130 mm
D	32 mm	32 mm	32 mm
E	16 mm	16 mm	16 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	112 mm	112 mm	112 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	110 g	110 g	110 g
Material Specifications			
Frame material	PP + GF	PP + GF	PP + GF
Overmoulded material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Total number of cables	26	32	42
Number of cables x cable Ø range	26 x Ø 4.8÷10.2 mm	21 x Ø 3÷6.5 mm 8 x Ø 4.8÷10.2 mm 3 x Ø 7.5÷12 mm	42 x Ø 3÷6.5 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20
Punching set CEMBRE**	RD46X112 ; RD36X112	RD46X112 ; RD36X112	RD46X112 ; RD36X112

**see page 305, 343

CABLE ENTRY WITH MEMBRANE IN RUBBER FOR UNMARKED CABLES SERIES 9220 TYPE A



CEMBRE

9220.24 MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

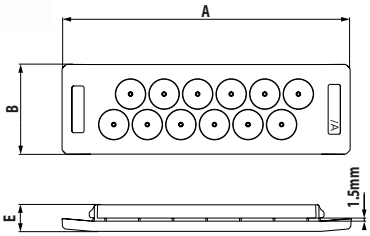
in TPE elastomer - Type A



EASY WIRE ORGANIZER

NEW | TPE ELASTOMER | IP64 | V0 UL94 | -40°C +100°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | c UL us *

Cable entry system dimensions



Metal plate perforation dimensions

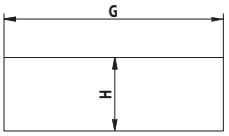
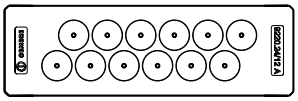
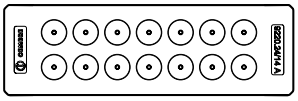
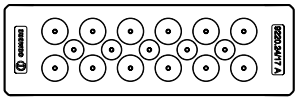


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9220.24/12A**	**9220.24/14A**	**9220.24/17A**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	142 mm	142 mm	142 mm
B	44 mm	44 mm	44 mm
E	13 mm	13 mm	13 mm
G	112 mm	112 mm	112 mm
H	36 mm	36 mm	36 mm
Metal plate thickness range	1.5÷2.5 mm	1.5÷2.5 mm	1.5÷2.5 mm
Weight	38 g	43 g	39 g
Material Specifications			
Printed material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 64	IP 64	IP 64
Total number of cables	12	14	17
Number of cables x cable Ø range	12 x Ø 1÷15 mm	14 x Ø 1÷12.5 mm	12 x Ø 1÷13 mm 5 x Ø 1÷10 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Punching set CEMBRE**	RD36X112	RD36X112	RD36X112

**see page 305, 343

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

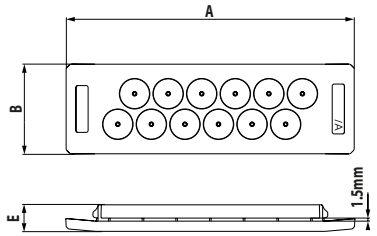
in TPE elastomer - Type A

9220.24

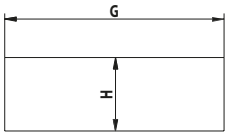
EWO® EASY WIRE ORGANIZER



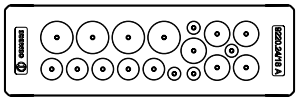
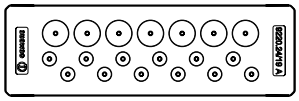
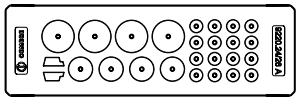
Cable entry system dimensions



Metal plate perforation dimensions



NEW · TPE ELASTOMER · IP64 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9220.24/18A**	**9220.24/19A**	**9220.24/26A**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	142 mm	142 mm	142 mm
B	44 mm	44 mm	44 mm
E	13 mm	13 mm	13 mm
G	112 mm	112 mm	112 mm
H	36 mm	36 mm	36 mm
Metal plate thickness range	1.5÷2.5 mm	1.5÷2.5 mm	1.5÷2.5 mm
Weight	39 g	47 g	41 g
Material Specifications			
Printed material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 64	IP 64	IP 64
Total number of cables	18	19	26
Number of cables x cable Ø range	4 x Ø 1 ÷ 16 mm 5 x Ø 1 ÷ 12,5 mm 5 x Ø 1 ÷ 11 mm 4 x Ø 1 ÷ 6.5 mm	7 x Ø 1÷13 mm 12 x Ø 1÷7 mm	4 x Ø 1 ÷ 16 mm 4 x Ø 1 ÷ 12 mm 16 x Ø 1 ÷ 6.5 mm 2 x ASI
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Punching set CEMBRE**	RD36X112	RD36X112	RD36X112

**see page 305, 343

9220.24 MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

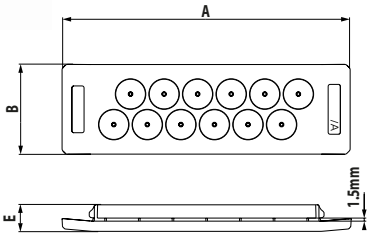
in TPE elastomer - Type A



EASY WIRE ORGANIZER

NEW | TPE ELASTOMER | IP64 | V0 UL94 | -40°C +100°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | c UL us *

Cable entry system dimensions



Metal plate perforation dimensions

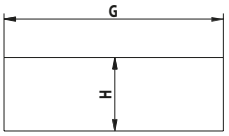
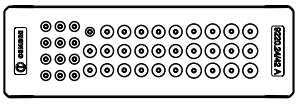
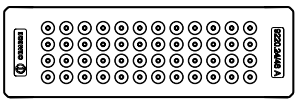
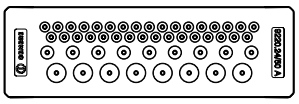


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9220.24/42A**	**9220.24/48A**	**9220.24/50A**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	142 mm	142 mm	142 mm
B	44 mm	44 mm	44 mm
E	13 mm	13 mm	13 mm
G	112 mm	112 mm	112 mm
H	36 mm	36 mm	36 mm
Metal plate thickness range	1.5÷2.5 mm	1.5÷2.5 mm	1.5÷2.5 mm
Weight	47 g	44 g	47 g
Material Specifications			
Printed material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 64	IP 64	IP 64
Total number of cables	42	48	50
Number of cables x cable Ø range	12 x Ø 1 ÷ 7.5 mm 17 x Ø 1 ÷ 6.5 mm 12 x Ø 1 ÷ 5 mm 1 x Ø 1 ÷ 4.5 mm	48 x Ø 1 ÷ 6.5 mm	8 x Ø 1 ÷ 9.5 mm 9 x Ø 1 ÷ 6.5 mm 33 x Ø 1 ÷ 5 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Punching set CEMBRE**	RD36X112	RD36X112	RD36X112

**see page 305, 343

CABLE ENTRY WITH MEMBRANE IN RUBBER FOR UNMARKED CABLES SERIES 9220 TYPE B



CEMBRE

9220.24

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

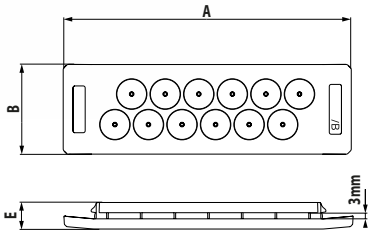
in TPE elastomer - Type B



EASY WIRE ORGANIZER

NEW | TPE ELASTOMER | IP64 | V0 UL94 | -40°C +100°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | c UL us *

Cable entry system dimensions



Metal plate perforation dimensions

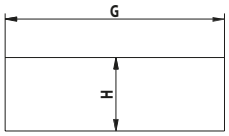
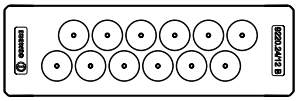
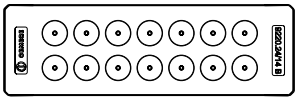
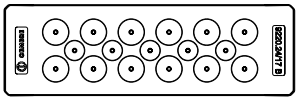


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9220.24/12B**	**9220.24/14B**	**9220.24/17B**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	142 mm	142 mm	142 mm
B	44 mm	44 mm	44 mm
E	13 mm	13 mm	13 mm
G	112 mm	112 mm	112 mm
H	36 mm	36 mm	36 mm
Metal plate thickness range	2.8÷4 mm	2.8÷4 mm	2.8÷4 mm
Weight	36 g	41 g	38 g
Material Specifications			
Printed material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 64	IP 64	IP 64
Total number of cables	12	14	17
Number of cables x cable Ø range	12 x Ø 1÷15 mm	14 x Ø 1÷12.5 mm	12 x Ø 1÷13 mm 5 x Ø 1÷10 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Punching set CEMBRE**	RD36X112	RD36X112	RD36X112

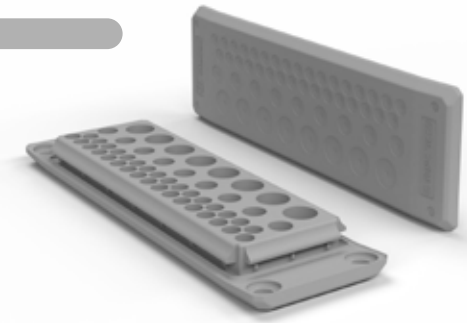
**see page 305, 343

MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

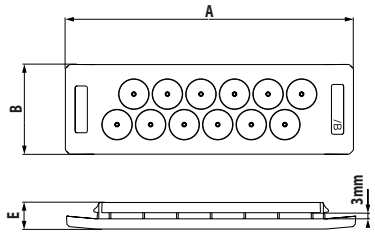
in TPE elastomer - Type B

9220.24

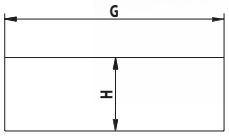
EASY WIRE ORGANIZER



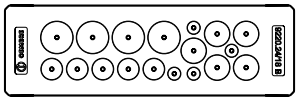
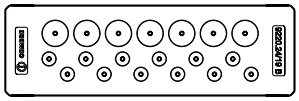
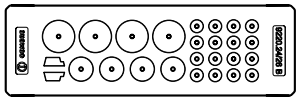
Cable entry system dimensions



Metal plate perforation dimensions



NEW · TPE ELASTOMER · IP64 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · c UL us *

Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Grey (RAL 7004)	**9220.24/18B**	**9220.24/19B**	**9220.24/26B**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	142 mm	142 mm	142 mm
B	44 mm	44 mm	44 mm
E	13 mm	13 mm	13 mm
G	112 mm	112 mm	112 mm
H	36 mm	36 mm	36 mm
Metal plate thickness range	2.8÷4 mm	2.8÷4 mm	2.8÷4 mm
Weight	38 g	45 g	39 g
Material Specifications			
Printed material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 64	IP 64	IP 64
Total number of cables	18	19	26
Number of cables x cable Ø range	4 x Ø 1 ÷ 16 mm 5 x Ø 1 ÷ 12,5 mm 5 x Ø 1 ÷ 11 mm 4 x Ø 1 ÷ 6.5 mm	7 x Ø 1÷13 mm 12 x Ø 1÷7 mm	4 x Ø 1 ÷ 16 mm 4 x Ø 1 ÷ 12 mm 16 x Ø 1 ÷ 6.5 mm 2 x ASI
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Punching set CEMBRE**	RD36X112	RD36X112	RD36X112

**see page 305, 343

CEMBRE

9220.24

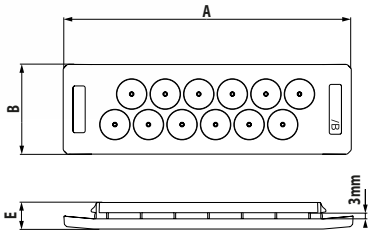
MEMBRANE CABLE ENTRY FOR UNMARKED CABLES

in TPE elastomer - Type B



EWO EASY WIRE ORGANIZER

Cable entry system dimensions



Metal plate perforation dimensions

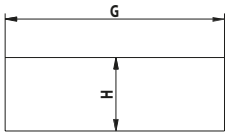
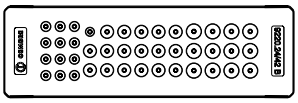
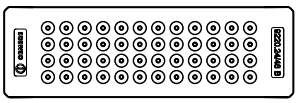
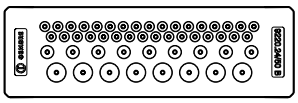


Diagram			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA
Type			
Grey (RAL 7004)	**9220.24/42B**	**9220.24/48B**	**9220.24/50B**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	142 mm	142 mm	142 mm
B	44 mm	44 mm	44 mm
E	13 mm	13 mm	13 mm
G	112 mm	112 mm	112 mm
H	36 mm	36 mm	36 mm
Metal plate thickness range	2.8÷4 mm	2.8÷4 mm	2.8÷4 mm
Weight	46 g	42 g	46 g
Material Specifications			
Printed material	TPE elastomer	TPE elastomer	TPE elastomer
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C a +100°C	–40°C a +100°C	–40°C a +100°C
IP rating (EN 60529)	IP 64	IP 64	IP 64
Total number of cables	42	48	50
Number of cables x cable Ø range	12 x Ø 1 ÷ 7.5 mm 17 x Ø 1 ÷ 6.5 mm 12 x Ø 1 ÷ 5 mm 1 x Ø 1 ÷ 4.5 mm	48 x Ø 1 ÷ 6.5 mm	8 x Ø 1 ÷ 9.5 mm 9 x Ø 1 ÷ 6.5 mm 33 x Ø 1 ÷ 5 mm
Certifications			
NEMA performance	12	12	12
UL Standard	50E	50E	50E
UL file number	*Pending	*Pending	*Pending
Accessories upon request			
Punching set CEMBRE**	RD36X112	RD36X112	RD36X112

**see page 305, 343

MECHANICAL AND PNEUMATIC TOOLS



SYMBOL DESCRIPTION

professional mechanical tools - hydraulic bench press



Can be operated with one hand



Manual pressure release button



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced for greater control



Dual-compound plastic handles
Greater safety and comfort in handling, thanks to the rubber inserts



Durable moulded body offering high resistance to wear and damage in all operating conditions



Extremely quiet in operation



Protected against accidental intrusions



Max cutting section



Max cutting diameter



High hardness blades



Stainless steel blades



High tensile steel blades



Micro-serrated blades for anti-slip purpose



Special Steel frame for high resistance and a long life

SYMBOL DESCRIPTION

professional mechanical tools - hydraulic bench press

HEXAGONAL — Hexagonal crimp

RADIAL — Radial crimp

INDENT — Indent crimp

INDENT — Indent crimp

W INDENT — W crimp

OVAL — Oval crimp

TRAPEZIUM — Trapezium crimp

RHOMBUS — Rhomboidal crimp

SQUARE — Square crimp

CE marking

UKCA marking



CEMBRE

CRIMPSTAR®

Manual tool, compact and easy to use, equipped with:
- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

HP1

MECHANICAL TOOLS CRIMPSTAR® RANGE

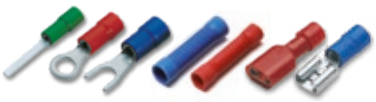
for insulated terminals and connectors



Crimpstar®

c UL us File no. E125401

The tool HP1 provide cUL® and UL® certified compression when used with CEMBRE VP.



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES:

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,2 to 2,5 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*512*
Package Dimensions	*240 x 81 x 25*

HP5

MECHANICAL TOOLS CRIMPSTAR® RANGE

for insulated terminals and connectors

CLASSIFIED c UL us E530816



Crimpstar®

c UL us File no. E125401

c UL us File no. E212000

The tool HP5 provide cUL® and UL® certified compression when used with CEMBRE RF, BF, GF, RF-F/M/FM, BF-F/M/FM, GF-F/M, RP, BP, GP, PL.



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,5 to 6 sqmm (for both right and left handed operators)*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*498*
Package Dimensions	*240 x 81 x 25*

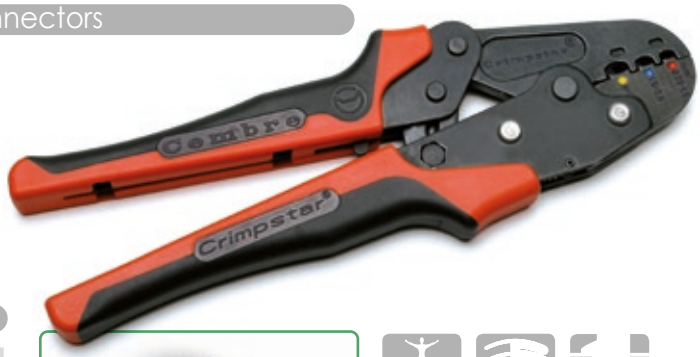
MECHANICAL TOOLS CRIMPSTAR® RANGE

HP3

for insulated terminals and connectors

Crimpstar®

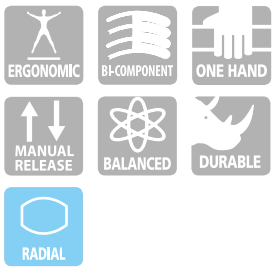




TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,25 to 6 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*498*
Package Dimensions	*240 x 81 x 25*





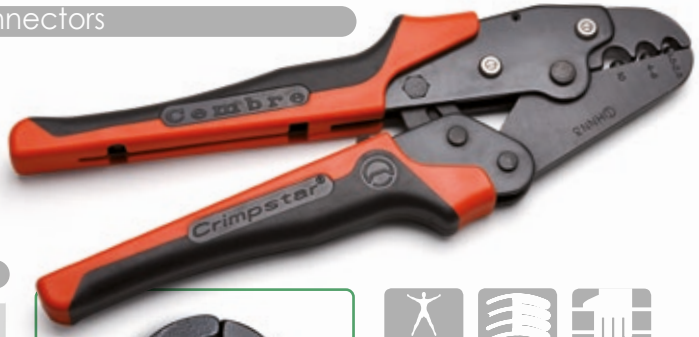
MECHANICAL TOOLS CRIMPSTAR® RANGE

HNN3

for insulated terminals and connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*PA6.6 insulated terminals and connectors for conductor sizes 1,5 to 10 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*491*
Package Dimensions	*240 x 81 x 25*





MECHANICAL TOOLS CRIMPSTAR® RANGE

HNN4

for insulated terminals and connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*PA6.6 insulated terminals and connectors for conductor sizes 10 and 16 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*492*
Package Dimensions	*240 x 81 x 25*





HPH1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for through connectors PE HD insulated, heat shrinkable



Crimpstar®



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES

Crimping Range	*Through connectors PE HD insulated, heat shrinkable. for conductor sizes 0,5 to 6 sqmm and PA6.6 connectors NL-M, NL-P for conductor sizes 0,25 to 6 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*512*
Package Dimensions	*240 x 81 x 25*

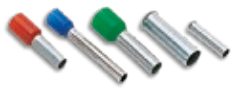
HNKE4

MECHANICAL TOOLS CRIMPSTAR® RANGE

for end sleeves



Crimpstar®



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM



TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 0,5 to 4 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*498*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNKE16

for end sleeves

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 4 to 16 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*491*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNKE50

for end sleeves

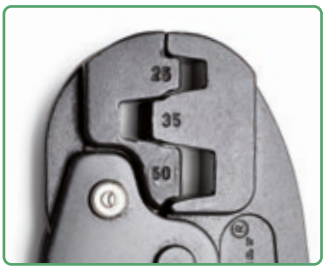
Crimpstar®





TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 25 - 35 - 50 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*590*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

HN1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for uninsulated terminals and connectors

Crimpstar®





ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 0,25 to 10 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*480*
Package Dimensions	*240 x 81 x 25*

HN5

MECHANICAL TOOLS CRIMPSTAR® RANGE

for uninsulated terminals and connectors

Crimpstar®





ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 10 and 16 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*489*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HN-A25

for uninsulated terminals and connectors A-M, L-M and L-P series

Crimpstar®







HN-D25

for Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267)

Crimpstar®







HN-H25

for Cu tube lugs HR and through connectors HSV

Crimpstar®







HN-T25

for Cu tube lugs T-M, T-L and through connectors L-T

Crimpstar®







HN-A25 TECHNICAL FEATURES:

Crimping Range	*Uninsulated terminals and connectors A-M, L-M and L-P series for conductor sizes 10 to 25 sqmm*

HN-D25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267) for conductor sizes 10 to 25 sqmm*

HN-H25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs HR and through connectors HSV for conductor sizes 10 to 25 sqmm*

HN-T25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs T-M, T-L and through connectors L-T for conductor sizes 10 to 25 sqmm*

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · HEXAGONAL

Dimensions mm	
Length	*230*
Width	*78*
Height	*19*
Weight g	*500*
Package Dimensions	*240 x 81 x 25*

HF1

MECHANICAL TOOLS CRIMPSTAR® RANGE

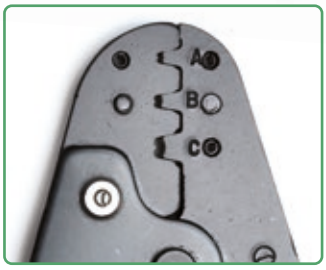
for open barrel brass terminals

Crimpstar®





ERGONOMIC | BI-COMPONENT | ONE HAND | MANUAL RELEASE | BALANCED | DURABLE | INDENT



TECHNICAL FEATURES

Crimping Range	*Open barrel brass terminals for conductors sizes 0,5 to 4 sqmm (not BN-FAB/FAR type)*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*509*
Package Dimensions	*240 x 81 x 25*

HF2

MECHANICAL TOOLS CRIMPSTAR® RANGE

for open barrel brass terminals

Crimpstar®





ERGONOMIC | BI-COMPONENT | ONE HAND | MANUAL RELEASE | BALANCED | DURABLE | INDENT



TECHNICAL FEATURES

Crimping Range	*Open barrel brass terminals for conductors sizes 0,08 to 1,3 sqmm (28 to 16 AWG)*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*497*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HX1

for coaxial connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*Coaxial connectors type RG58, RG59, RG62 and RG 71*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*481*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC
BI-COMPONENT
ONE HAND
MANUAL RELEASE
BALANCED
DURABLE
HEXAGONAL

CEMBRE

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE



MLRJ1



TECHNICAL FEATURES

Crimping Range	For crimping plugs RJ 11; RJ 12; RJ 14; RJ 22; RJ 45. With cutting and wire-stripping blades
Dimensions mm	
Length	211
Width	75
Height	23
Weight g	526



MLL1

RADIAL



TECHNICAL FEATURES

Crimping Range	For crimping insulated terminals, 0,25 to 6 sqmm side insertion
Dimensions mm	
Length	252
Width	78
Height	23
Weight g	556



MLL90

INDENT



TECHNICAL FEATURES

Crimping Range	Single aperture, ratchet controlled tool for crimping female connectors, open barrel, flag type 1 to 2,5 sqmm - side insertion
Dimensions mm	
Length	252
Width	78
Height	23
Weight g	558

ERGONOMIC ONE HAND BALANCED DURABLE



MLS1

TRAPEZIUM



TECHNICAL FEATURES

Crimping Range	*For crimping end sleeves 0,25 to 6 sqmm*
Dimensions mm	
Length	*198*
Width	*77*
Height	*18*
Weight g	*350*



MLS2

W INDENT



TECHNICAL FEATURES

Crimping Range	*For crimping end sleeves 6 to 16 sqmm*
Dimensions mm	
Length	*198*
Width	*77*
Height	*18*
Weight g	*350*

ZP2



TECHNICAL FEATURES

Crimping Range	*For crimping insulated and uninsulated connectors, 0,25 to 6 sqmm*
Dimensions mm	
Length	*234*
Width	*65*
Height	*15*
Weight g	*228*

ND

MECHANICAL TOOLS ND® RANGE

for insulated and uninsulated end sleeves

ERGONOMIC · ONE HAND · BALANCED · DURABLE · TRAPEZIUM

A generation of tools, with a unique mechanism to reduce operator effort. Small and compact, with ergonomically designed handles for ease of operation.

High quality materials combined with advanced design and manufacturing technology, produce a reliable tool with a guaranteed consistent, crimping operation.

nd®

ND1





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 0,3 to 1,5 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

ND2





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 1 to 6 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

ND3





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 6 to 16 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

ND4





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 0,5 to 4 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

Package Dimensions mm	*195 x 76 x 20*

MECHANICAL TOOLS ZKE RANGE

for insulated and uninsulated end sleeves

ERGONOMIC · ONE HAND · BALANCED · DURABLE

The ZKE610N and ZKE616N pliers provide cUL® and UL® certified compression when used with CEMBRE PKE, PKC, PKD and PKT end sleeves.



TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping end sleeves, 0,1 to 10 sqmm side insertion*
Dimensions mm	
Length	*184*
Width	*80*
Height	*26*
Weight g	*375*

SQUARE

CLASSIFIED C UL US E530816

ZKE610N





TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping end sleeves, 0,1 to 16 sqmm side insertion*
Dimensions mm	
Length	*184*
Width	*80*
Height	*30,5*
Weight g	*380*

SQUARE

CLASSIFIED C UL US E530816

ZKE616N





TECHNICAL FEATURES

Crimping Range	*For insulated PA6 and uninsulated end sleeves from 0,5 to 16 sqmm For insulated PA6 'TWIN' end sleeves from 2x 0.5 to 2x10 sqmm*
Dimensions mm	
Length	*225*
Width	*52*
Height	*21*
Weight g	*290*

NEW

INDENT

ZKE2N



HWE1N

MECHANICAL TOOL HWE1N

with interchangeable dies







ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE

TECHNICAL FEATURES

Dimensions mm	
Length	*240*
Width	*79*
Height	*32,5*
Weight g	*590*

A robust and reliable tool designed to optimise the installers time and effort. A single tool body with a range of interchangeable dies allows a quick and simple transfer from one cable/connector combination to another, across a range of applications.

N.B .: the tool is supplied without dies, for their choice consult the table on the side.

TECHNICAL FEATURES:

- Automatic opening of handles following completion of the crimping operation
- Dull Nickel finish
- Anti-slip handle grips

KIT AVAILABLE ON REQUEST



VALSTAR-N5
comprising:

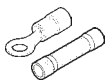
- **HWE1N** Manual mechanical tool
- **KE16-WE** die
- **RBY-WE**
- all contained in a sturdy plastic case with extra compartments for interchangeable dies



VALSTAR-N6
comprising:

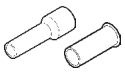
- **HWE1N** Manual mechanical tool
- **HB11** wire stripper
- **MC4-WE** die
- all contained in a sturdy plastic case with extra compartments for interchangeable dies

INTERCHANGEABLE DIES TO ORDER SEPARATELY



INSULATED CONNECTORS RED, BLUE AND YELLOW

RBY-WE
Size 0,5 to 6 mm²

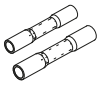


INSULATED AND UNINSULATED END SLEEVES

KE6-WE
Size 0,5 to 6 mm²

KE16-WE
Size 0,5 to 16 mm²

KE35-WE
Size 16 to 35 mm²



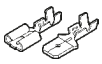
CONNECTORS WITH HEAT SHRINKABLE INSULATION

WLM-WE
Size 0,5 to 6 mm²



UNINSULATED CABLE LUGS

N10-WE
Size 0,5 to 10 mm²



OPEN BARREL BRASS CONNECTORS

F050-WE
Size 0,08 and 0,5 mm²

F075-WE
Size 0,05 and 0,75 mm²

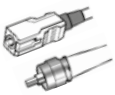
F2.5-WE
Size 0,5 and 2,5 mm²



PHOTOVOLTAIC CONNECTORS (MULTI-CONTACT)

MC3-WE
Size 4 to 6 mm²

MC4-WE
Size 4 to 6 mm²



FIBER OPTIC CONNECTOR

ST-WE
SMA, SMB, SFR, ST, SC

SMA-WE
SMA

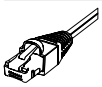


COAXIAL CONNECTORS

RG71-WE
RG58, RG59, RG62

RG174-WE
RG58, RG174

RG179-WE
RG174, RG179



SHIELDED WE CONNECTOR

RJ45-WE
RJ45

MECHANICAL TOOL IDT

with modular interchangeable dies

Dies for photovoltaic connectors



4300-3541
Tyco Solarlok

4300-3539
MC4 Multi Contact

4300-3540
MC3 Multi Contact

ERGONOMIC · ONE HAND · BALANCED · DURABLE

A robust and reliable tool designed to optimise the installers time and effort.
A single tool body with a range of interchangeable dies allows a quick and simple transfer from one cable/connector combination to another, across a wide range of applications.
Modular dies may be inserted/extracted without using any tools and are connected in pairs for speed and convenience.
To assist correct die selection, the type of connector is illustrated on each die.
Each die also carries an illustration of the steps in each crimping process, to assist in achieving the best result.







TECHNICAL FEATURES

Dimensions mm	
Length	*234*
Width	*64*
Height	*24*
Weight g	*460*

INTERCHANGEABLE DIES TO ORDER SEPARATELY

INSULATED CONNECTORS RED, BLUE, YELLOW and GREEN

4300-3129	*4300-3128*
Size 0,5 ÷ 2,5 mm² (Red - Blue)	*Size 4 ÷ 6 mm²* (Yellow) *Size 0,1 ÷ 0,4 mm²* (Green)

CONNECTORS WITH HEAT SHRINKABLE INSULATION

4300-3258	*4300-3262*
Size 0,5 ÷ 2,5 mm² (Red - Blue)	*Size 4 ÷ 6 mm²* (Yellow) *Size 0,32 ÷ 0,75 mm²* (Green)

UNINSULATED CONNECTORS

4300-3137	*4300-3241*
Size 0,75 ÷ 2,5 mm²	*Size 4 ÷ 10 mm²*

CONTACTS FOR MULTI POLAR CONNECTORS (eg. ILME, HTS, CONTACT)

4300-3147	*4300-3148*
Size 0,14 ÷ 4 mm²	*Size 6 ÷ 10 mm²*

INSULATED AND UNINSULATED END SLEEVES

4300-3127	*4300-3153*	*4300-3154*
Size 0,25 ÷ 10 mm²	*Size 16 ÷ 25 mm²*	*Size 35 ÷ 50 mm²*

OPEN BARREL CONNECTORS

4300-3146
Size 0,5 ÷ 6 mm²

BNC/TNC CONNECTORS FOR COAXIAL CABLES

4300-3136	*4300-3140*
RG 58, 59, 62, 71	*RG 174, 179*

TV - SATELLITE RECEIVER CONNECTORS

4300-3138
RG 6, 59

PHONE CONNECTORS

4300-3144	*4300-3132*
RJ 45 (LARGE)	*RJ 11 (SMALL)*

PHOTOVOLTAIC CONNECTORS (MULTI-CONTACT)

4300-3540	*4300-3539*	*4300-3541*
MC3 *Size 2,5 - 4/6 mm²*	*MC4* *Size 2,5/4/6 mm²*	*Tyco Solarlok* *Size 2,5/4/6 mm²*



VALSTAR R3 IDT
To order separately - sturdy plastic case designed to store an IDT tool and up to 10 modular dies.

Modular die storage housings are easily combined for convenient transportation





Modular die pack

CEMBRE

TN60C



general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 354 to 370





Professional manual mechanical tool suitable for crimping connectors up to 300 mm².

It can use all dies common to CEMBRE 60kN heads and tools.

The head rotates 360°, the operator can always crimp in the best position.

Telescopic extendable handles to reduce operator effort during compression.
Ergonomic shape of the two-component non-slip plastic handle.



TECHNICAL FEATURES

Dimensions mm	
Length (Handles closed)	573
Length (Extended handles)	1.260
Width	168
Height	49
Weight kg	3,7

MECHANICAL TOOLS TN RANGE

for uninsulated terminals and connectors

TN70SE
TN70
TN120SE
TN120S

A-M SERIES





DURABLE INDENT

TECHNICAL FEATURES

TN70SE TN70 Crimping Range	*Uninsulated terminals and connectors for conductor sizes 6 R/F to 70 R/F sqmm
Dimensions mm	
Length	450
Width	127
Height	47
Weight kg	2

*R= Rigid conductor F= Flexible conductor



TECHNICAL FEATURES

TN120SE TN120S Crimping Range	*Uninsulated terminals and connectors for conductor sizes 10 R/F to 120 R/150 F sqmm
Dimensions mm	
Length	700
Width	170
Height	47
Weight kg	3

*R= Rigid conductor F= Flexible conductor



TN70SE: vernier scale with section of conductors
TN70: vernier scale with connector sizes

TN120SE: vernier scale with section of conductors
TN120S: vernier scale with connector sizes

Professional manual mechanical tool suitable for crimping A-M Cu lugs and non-insulated L-M and L-P connectors.
Heat treated steel crimp jaws.
Easily adjustable die positioning by knurled screw and reference vernier scale.
Handles made from anti-slip plastic with hilt.

MECHANICAL TOOLS TN RANGE

for insulated terminals and connectors

TNN70
TNN120

ANE SERIES





DURABLE INDENT

TECHNICAL FEATURES

TNN70 Crimping Range	*Polyamide PA6.6 insulated terminals and connectors for conductor sizes 10 F to 70 F sqmm
Dimensions mm	
Length	450
Width	127
Height	47
Weight kg	2

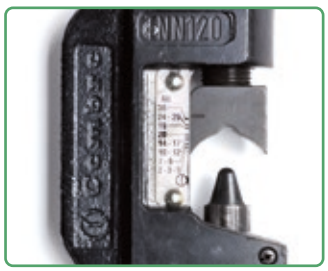
*F= Flexible conductor



TECHNICAL FEATURES

TNN120 Crimping Range	*Polyamide PA6.6 insulated terminals and connectors for conductor sizes 10 F to 120 F sqmm
Dimensions mm	
Length	700
Width	170
Height	47
Weight kg	3

*F= Flexible conductor



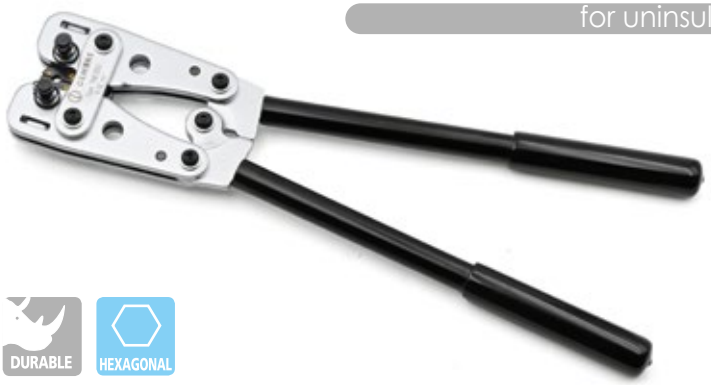
Professional manual mechanical tool suitable for the crimping of wire terminals and PA 6.6 insulated connectors.
Heat treated steel crimp jaws.
Easily adjustable die positioning by knurled screw and reference vernier scale.
Handles made from anti-slip plastic with hilt.

CEMBRE

TNE-A50

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors



A-M SERIES



DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable for crimping A-M Cu lugs and non-insulated L-M connectors, particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*

TNE-A120

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors



A-M SERIES



DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable for crimping A-M Cu lugs and non-insulated L-M connectors, particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 10 to 120 sqmm*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*

MECHANICAL TOOLS TNE RANGE

TNE-T50

for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T

T-M SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*



Mechanical tools equipped with rotating dies with hexagonal imprint, suitable to crimp Copper lugs T-M series according to (NFC 20-130), T-L and and through connectors L-T, particularly sturdy and easy to handle.

MECHANICAL TOOLS TNE RANGE

TNE-T120

for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T

T-M SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T for conductor sizes 10 to 120 sqmm*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*



Mechanical tools equipped with rotating dies with hexagonal imprint, suitable to crimp Copper lugs T-M series according to (NFC 20-130), T-L and and through connectors L-T, particularly sturdy and easy to handle.

TNE-D50

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1



DR SERIES



DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint compliant with DIN 480863 suitable to crimp Copper lugs according to DIN 46235 and through connectors according to DIN 46267 T.1, particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1 for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*

TNE-D120

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1



DR SERIES



DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint compliant with DIN 480863 suitable to crimp Copper lugs according to DIN 46235 and through connectors according to DIN 46267 T.1, particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1 for conductor sizes 10 to 120 sqmm*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*

MECHANICAL TOOLS TNE RANGE

TNE-H50

for uninsulated copper tube lugs HR and through connectors HSV

HR SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for uninsulated Copper tube lugs HR and through connectors HSV for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*



Mechanical tools equipped with rotating dies with hexagonal imprint suitable to crimp Copper tube lugs HR and through connectors HSV, particularly sturdy and easy to handle.

MECHANICAL TOOLS TNE RANGE

TNE-H120

for uninsulated copper tube lugs HR and through connectors HSV

HR SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for uninsulated Copper tube lugs HR and through connectors HSV for conductor sizes 10 to 120 mm²*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*



Mechanical tools equipped with rotating dies with hexagonal imprint suitable to crimp Copper tube lugs HR and through connectors HSV, particularly sturdy and easy to handle.

HB14

WIRE STRIPPERS HB RANGE

for insulated cables



STRIPPING · CUTTING · LENGHT ADJUSTMENT · FORCE ADJUSTMENT







Automatic wire stripper HB14
Automatic stripping force adjustment according to the cable section; the stripping force can be manually adjusted even for very soft or tough insulation for cables from 0,2 to 6,0 sqmm.
Stripping length adjustable from 6 to 18 mm.
Conductor cut from 0,2 to 2,5 sqmm.

TECHNICAL FEATURES

Dimensions mm	
Length	*200*
Width	*165*
Height	*28*
Weight g	*155*

HB6

STRIPPING · LENGHT ADJUSTMENT

Wire strippers,
including stripping die for PVC insulated cables 0,02 to 10 sqmm



TECHNICAL FEATURES

Dimensions mm	
Length	*191*
Width	*90*
Height	*20*
Weight g	*136*

Interchangeable stripping dies available upon request:



4320-0866, rounded blades
suitable for:
PVC from 4 to 16 sqmm



4320-0864, flat blade
suitable for:
PVC from 0,02 to 10 sqmm



4320-0865, 'V' blades
suitable for:
PTFE from 0,1 to 4 sqmm

PTS4

STRIPPING



Wire stripping tool for PVC insulated cables from 0.2 to 6 mm^2

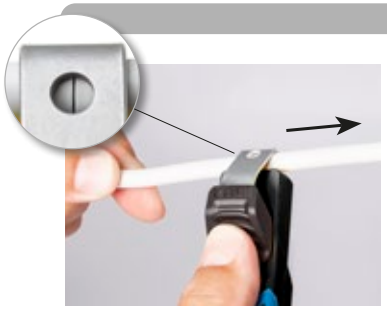
TECHNICAL FEATURES

Dimensions mm	
Length	*175*
Width	*90*
Height	*22*
Weight g	*200*

WIRE STRIPPERS HB RANGE

for insulated cables

HB23









STRIPPING



TECHNICAL FEATURES

Dimensions mm	
Length	*167*
Width	*32*
Height	*38*
Weight g	*124*

Round cable stripper HB23
Round cable cutting system with intelligent, interchangeable bracket. Supplied as standard with brackets for cables No. 28 and 35, for the most common cable types from 8 to 35 mm Ø.

Thanks to this system, all the most common types of cables, from 4 to 70 mm in diameter, can be stripped with just one tool.

Intelligent bracket change according to stripping diameter
blade length: 3.5 mm

Cutting depth adjustment sliding stop to set the height of the hook blade according to insulation Thickness knife length:
2.8 to 4.6 mm

Bracket Type	Application range	Replacement No.
CB16-HB23	Ø 4-16 mm	No.16
CB28-HB23	Ø 8-28 mm	No.28
CB35-HB23	Ø 27-35 mm	No.35
CB50-HB23	Ø 35-50 mm	No.50
CB70-HB23	Ø 50-70 mm	No.70



HB2



Cable stripping tool for circular cables Ø 4,5 to 28,5 mm

TECHNICAL FEATURES

Dimensions mm	
Length	*135*
Width	*-*
Height	*-*
Weight g	*107*

HB3



Wire stripping tool for circular diameters from 4.5 to 40 mm, insulation thickness up to 4.5 mm

TECHNICAL FEATURES

Dimensions mm	
Length	*167*
Width	*37*
Height	*40*
Weight g	*116*

CEMBRE

HB17

WIRE STRIPPERS HB RANGE

for all standard insulated round cables



Stripper for all standard insulated round cables HB17
Stripper for all standard insulated round cables, including NYM 3x1,5 bis 5x2,5mm², NHXMH 3x1,5 bis 5x2,5mm² halogenfree.
No cutting depth adjustment required. TiN-coated blades.
Extra blade for longitudinal cut. 6 stripping blades from 0.2 to 4.0 mm².
Dual-compound handle for better grip and more safety.
Pocket clip.

STRIPPING CUTTING

	Ø	8-13mm			5/16-1/2"		
	mm²	0,2	0,3	0,8	1,5	2,5	4,0
	AWG	24	22	18	16	14	12





TECHNICAL FEATURES

Dimensions mm	
Length	*124*
Width	*25*
Height	*35*
Weight g	*42*

HB19

WIRE STRIPPERS HB RANGE

for solar cables



Stripper for solar cables HB19
Quick and precise stripping of all standard energy and security cables from 2.5-6mm², double shielded solar cables, shortcut and grounding-proof, flameretardant, halogen-free cables (e. g. NSGAFÖU, VER H07RN-F), with integrated, rotatable length stop for 8.5mm and 15mm stripping length.

STRIPPING





TECHNICAL FEATURES

Dimensions mm	
Length	*124*
Width	*25*
Height	*35*
Weight g	*50*

WIRE STRIPPERS HB RANGE

HB20

for pvc-insulated data cables





STRIPPING



TECHNICAL FEATURES

Dimensions mm	
Length	*100*
Width	*18*
Height	*18*
Weight g	*24*

Stripper for pvc-insulated data cables HB20

The CEMBRE HB20 is a powerful stripping tool for PVC-insulated data cables (incl. Cat 5, Cat 6, and Cat 7 cables, Twisted-Pair cables) with diameters from 4.5 to 10mm (Ø 0.18-0.39 in.).

No adjustment to the cutting depth to the cable thickness is required, since the unique blade layout lifts the outer insulation carefully and strips the foil shielding. All stripper blades are titanium-nitride coated.

WIRE STRIPPERS HB RANGE

HB21

for coaxial cables





STRIPPING



TECHNICAL FEATURES

Dimensions mm	
Length	*100*
Width	*18*
Height	*18*
Weight g	*21*

Stripper for coaxial cables HB21

For quick and easy stripping of most common coaxial-cable types e.g. TV antenna cable types Ø 4,8-7,5mm (Ø 0.19-0.30 in.) and 3x0,75mm² (3x18 AWG) round PVC sheathed cable.

HB22

WIRE STRIPPERS HB RANGE

for insulated round cables



STRIPPING



Stripper for insulated round cables HB22
For all common round cables Ø 4-15mm (5/32"-19/32") with PVC-sheathing (e. g. type NYM or flexible cable), rubber or hard plastic sheathing.

For PVC-sheathed flat cables up to 15mm (19/32") width.

TECHNICAL FEATURES

Dimensions mm	
Length	*130*
Width	*25*
Height	*38*
Weight g	*49*



HB16

WIRE STRIPPERS HB RANGE

for sensor/actuator cables



STRIPPING AUTOMATIC ADJUSTMENT





Automatic wire stripper HB16
Is tightly focussed to the needs of stripping the sheathing of sensor/actuator cables. With their new blade design the tools strip PVC/PUR cable sheathings precisely without damages to the individual conductors or shieldings inside.

The innovative cable scanning system adjusts the stripping blades automatically to the various cable diameters.

So the stripping of the outer sheathing of cables for connecting Sensor/Actuator boxes or bus couplers is being done quickly and safely.

TECHNICAL FEATURES

Dimensions mm	
Length	*172*
Width	*98*
Height	*30*
Weight g	*152*

CABLE STRIPPING TOOLS HB RANGE

for external sleeves of Low/Medium Voltage cables



HB13UE

Universal cable stripping tool for external sleeves of Low/Medium Voltage cables Ø 12,7 to 63,5 mm and primary insulator in XLPE max Ø 38,1 mm



for vulcanized extruded semiconductor



The HB12N kit includes:
- HB12N cable stripping tool
- sturdy plastic case



HB12N

HB12N cable stripping tool removes the semiconductor layer by being manually rotated around the cable while lateral advancement is achieved automatically. Safe and convenient, it can be used on cables with a semi-con diameter between 18 - 60 mm.

- Sturdy frame in anodised Aluminium alloy and Steel.
- Special Steel blade with precise cutting depth regulation.
- Stripping operation can start at any point along the conductor.
- Bearing mounted rollers provide smooth cutting action.
- With "REVERSE" function, which allows the removal of semiconductor up to 7 mm thick from the sheath of the cable.
- Double speed for each direction.





HB9

Insulated knife, with curved blade and protective cover.
Suitable for insulation and screen removal, equipped with blade guide to avoid damage to strands.
Handle is made of a bi-component plastic material.



HB10

Insulated knife has an interchangeable straight blade and plastic blade protector that folds into the handle.
Ergonomic handle made of anti shock plastic material

CEMBRE

CABLE CUTTERS KT RANGE FOR SMALL SECTIONS

for cutting cables Cu and Al

KT1R

DURABLE · Ø 12mm



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 12 mm
Dimensions mm	
Length	170
Width	65
Height	20
Weight g	230

KT1N

DURABLE · Ø 15mm



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 15 mm
Dimensions mm	
Length	170
Width	65
Height	28
Weight g	264

KT2N

DURABLE · Ø 20mm



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 20 mm
Dimensions mm	
Length	220
Width	65
Height	28
Weight g	350

KT5

DURABLE · Section 25mm²



TECHNICAL FEATURES

Cutting Capacity	for cutting cables Cu and Al up to max section 25 sqmm
Dimensions mm	
Length	170
Width	52
Weight g	108

RATCHET CABLE CUTTERS KT RANGE

for cutting cables Cu and Al

KT3N

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 34 mm
Dimensions mm	
Length	260
Weight g	600

DURABLE

Ø 34mm



Ideal for copper and aluminium cables/wires.
Not suitable for Class 5 and 6 cables, ACSR, armored cables or steel wire.

KT4N

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 62 mm
Dimensions mm	
Length	297
Weight g	800

DURABLE

Ø 62mm



Ideal for copper and aluminium cables/wires.
Not suitable for Class 5 and 6 cables, ACSR, armored cables or steel wire.

KT45

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 45 mm
Dimensions mm	
Length	250
Width	110
Weight g	950

DURABLE

Ø 45mm



Ideal for copper and aluminium cables/wires.
Not suitable for ACSR, armored cables or steel wire.

KT6

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 100 mm
Dimensions mm	
Length	650
Width	250
Weight g	4

DURABLE

Ø 100mm



Ideal for copper and aluminium cables/wires.
Not suitable for ACSR, armored cables or steel wire.

CABLE CUTTERS KT RANGE FOR LARGE SECTIONS

for cutting cables Cu and Al

KT7

DURABLE Ø 27mm





TECHNICAL FEATURES

Cutting Capacity	*For cutting cables Cu and Al Ø Max 27 mm*
Dimensions mm	
Length	*500*
Width	*170*
Height	*50*
Weight g	*1.260*

KT8

DURABLE Ø 38mm





TECHNICAL FEATURES

Cutting Capacity	*For cutting cables Cu and Al Ø Max 38 mm*
Dimensions mm	
Length	*570*
Weight g	*2.300*

CABLE CUTTERS KT RANGE FOR LARGE SECTIONS

for cutting cables Cu and Al

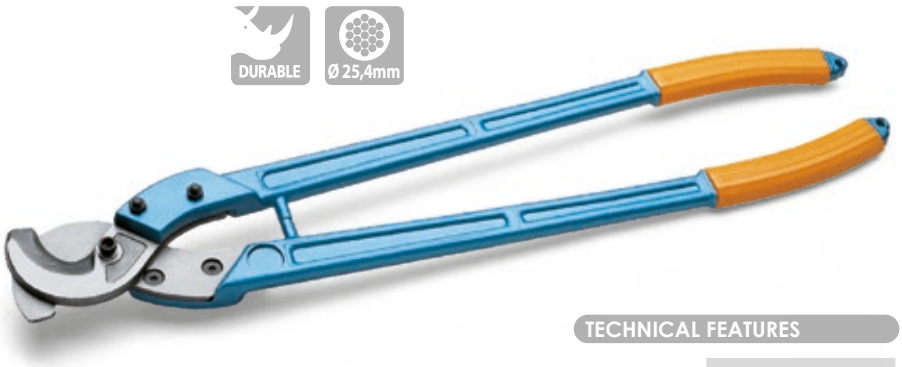
5116660250



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 18 mm
Dimensions mm	
Length	600
Width	140
Weight kg	1,5

5116660500



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 25,4 mm
Dimensions mm	
Length	800
Width	160
Weight kg	3,0

KTS1632

HAND TOOLS

for cutting and sealing flexible plastic conduit

Cuts and seals flexible plastic conduit in a single operation.
Lightweight and easy to operate.
Suitable for flexible conduits from Ø16 to Ø32 mm.



TECHNICAL FEATURES

Dimensions mm	
Length	*230*
Width	*58*
Thickness	*32*
Weight kg	*0,32*





PC1

for cutting plastic pipe

Plastic pipe cutting tool
Cutting capacity: Ø 6 to Ø 42 mm.

Body: die-cast aluminium alloy
Blade material: hardened Carbon Steel



TECHNICAL FEATURES

Dimensions mm	
Length	*195*
Width	*96*
Thickness	*27*
Weight kg	*0,32*



5313022048

Automatic cutting



TECHNICAL FEATURES

Application Range	*For plastic cable ties from 2,2 to 4,8 mm*
Dimensions mm	
Length	*162*
Width	*133*
Height	*23*
Weight g	*208*

5527030079

With cutting device



TECHNICAL FEATURES

Application Range	*For stainless steel cable ties width up to 7,9 mm*
Dimensions mm	
Length	*180*
Width	*141*
Height	*30*
Weight g	*558*

5523036090

Manual cutting



TECHNICAL FEATURES

Application Range	*For plastic cable ties from 4,8 to 9 mm*
Dimensions mm	
Length	*194*
Width	*100*
Height	*25*
Weight g	*324*

VALSTAR-N

ASSORTMENT CASE

for storing connecting material and hand tools



VALSTAR-N0 (empty)

Robust plastic case with compartments

- **1 storage compartment**
  for mechanical tools, type Crimpstar® /ZKE-N/etc.
- **8 storage compartments**
  for connecting material

Dimensions (LxWxH): 340 x 274 x 71 mm
Weight: 698 g



VALSTAR-N1

Robust plastic case with compartments, containing:

- Tool type **ZKE610N**
- a selection of end sleeves PKC conductor size from 1 to 6 mm²
- Cable ties type G100X2.5

VALSTAR-N1 Material included:

Q.ty	Cond. Size mm²	Length mm	Color	Type
500	1	14	Yellow	**PKC108**
500	1.5	14	Red	**PKC1508**
500	2.5	14	Blue	**PKC2508**
200	4	18	Grey	**PKC410**
100	6	20	Black	**PKC612**
100	-	100 x 2,5	White	**G100X2.5**

VALSTAR-N2

Robust plastic case with compartments, containing:

- Tool type **ZKE610N**
- a selection of end sleeves PKE conductor size from 1 to 6 mm²
- Cable ties type G100X2.5

VALSTAR-N2 Material included:

Q.ty	Cond. Size mm²	Length mm	Color	Type
500	1	14	Red	**PKE108**
500	1.5	14	Black	**PKE1508**
500	2.5	14	Grey	**PKE2508**
200	4	18	Orange	**PKE410**
100	6	20	Green	**PKE612**
100	-	100 x 2,5	White	**G100X2.5**

VALSTAR-N3

Robust plastic case with compartments, containing:

- Tool type **ZKE610N**
- a selection of end sleeves PKD conductor size from 1 to 6 mm²
- Cable ties type G100X2.5

VALSTAR-N3 Material included:

Q.ty	Cond. Size mm²	Length mm	Color	Type
500	1	14	Red	**PKD108**
500	1.5	14	Black	**PKD1508**
500	2.5	14	Blue	**PKD2508**
200	4	18	Grey	**PKD410**
100	6	20	Yellow	**PKD612**
100	-	100 x 2,5	White	**G100X2.5**



VALSTAR-N4 Material included:

Q.ty	Cond. Size mm²	Description	Type
100	0,25÷1,5	ring terminals	**RF-M4**
100	1,5÷2,5	ring terminals	**BF-M5**
100	4÷6	ring terminals	**GF-M6**
100	0,25÷1,5	female disconnect terminals	**RF-F608P**
100	1,5÷2,5	female disconnect terminals	**BF-F608P**
100	0,25÷1,5	butt connectors	**PL03-M**
	Length mm		
100	100 x 2,5	cable ties	**G100X2.5**

VALSTAR-N4

Robust plastic case with compartments, containing:
- Tool type **Crimpstar® HP3**.
- An assortment of PVC insulated crimp terminals for conductor sizes from 0,25 to 6 mm².
- Cable ties



VALSTAR-N11

Robust plastic case with compartments, containing:
- Tool type **Crimpstar® HP5**.

VALSTAR-N

ASSORTMENT CASE

for storing connecting material and hand tools



VALSTAR-N5

Robust plastic case with compartments, containing:
- Tool type **HWE1N**
- KE16-WE die
- RBY-WE die

VALSTAR-N5 Dies included:

Q.ty	Cond. Size mm²	Description	Type
1	0,5÷16	Insulated and uninsulated end sleeves	**KE16-WE**
1	0,5÷6	Insulated connectors red, blue and yellow	**RBY-WE**



VALSTAR-N6

Robust plastic case with compartments, containing:
- Tool type **HWE1N**
- Tool type **HB11**
- MC4-WE die

VALSTAR-N6 Dies included

Q.ty	Cond. Size mm²	Description	Type
1	4 ÷ 6	Dies for Multi-Contacts MC4 connectors	**MC4-WE**

BENCH PRESS TOOLS



PNB-1

BENCH PRESS TOOL

Pneumo-hydraulic with interchangeable dies



Pneumo-hydraulic, production bench press, operated by a manual control, provides a consistent and reliable crimped connection. Extensive range of interchangeable dies available for crimping a wide variety of connectors.

NOTE: for applications not listed, please contact CEMBRE.



PNB-1 detail of the crimping zone with PU-1 guard.

TECHNICAL FEATURES

Nominal operating pressure	*6 bar*
Dimensions mm	
Width	*180*
Depth	*320*
Height	*700*
Weight kg (without dies)	*23*

INTERCHANGEABLE DIES (to be ordered separately)

Die Set	Guard*	Connector Type			Nominal Conductor Size sqmm
PV-1	PU-1	Insulated Connectors		green	0,2÷0,5
PR-1				red	0,25÷1,5
PB-1				blue	1,5÷2,5
PG-1				yellow	4÷6
PH1-1	PH-1**	Butt connectors PVC insulated		PL03-M	0,25÷1,5
				PL06-M	1,5÷2,5
				PL1-M	4÷6
PH1-1	PH-1**	Through connectors PE HD insulated			0,5÷6
		NL-M, NL-P connectors PA6.6 insulated			0,25÷6
KE0.75-1	PK-1	End Sleeves		KE, PK...	0,3 - 0,5 - 0,75
KE2.5-1					1 - 1,5 - 2,5
KE10-1					4 - 6 - 10
MTT16-50	ME-1				16
MTT25-50					25
N1-1	PU-1	A 03-M..	S 1.5-..	RN-..	0,25 - 1,5
		A 06-M..	S 2.5-..	BN-..	1,5 - 2,5
		A 1-M..	S 6-..	GN-..	4 - 6
ME1-50	PU-1	Uninsulated Copper Lugs		A1-M..	4 - 6
ME2-50	ME-1			A2-M.. S10-M..	10
ME3-50				A3-M..	16
ME5-50				A5-M..	25
ME7-50				A7-M..	35
ME9-50				A9-M..	
ME10-50				A10-M..	50
ME12-50				A12-M..	
MS6-50	ME-1	Uninsulated Copper Lugs		T6-M	4 - 6
MS10-50				T10-M	10
MS16-50				T16-M	16
MS25-50				T25-M	25
MS35-50				T35-M	35
MS50-50				T50-M	50
MN2RF-50	MN RF-1	Polyamide Insulated Lugs		ANE2-M..	10
MN3RF-50				ANE3-M..	16
MN5RF-50				ANE5-M..	25
MN7RF-50				ANE7-M..	35
				ANE9-M..	

** Supplied as standard with the machine ** Supplied as standard with the die*

BENCH PRESS TOOL

PNB-3

Pneumatic

Pneumatic bench press operated by foot pedal for crimping terminals and connectors 0,25 to 16 sqmm.

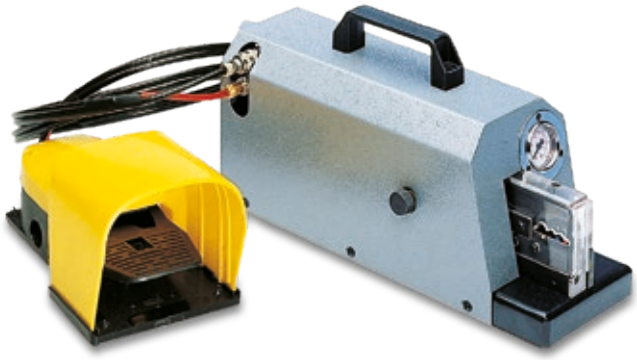


TECHNICAL FEATURES

Nominal operating pressure	*6÷7 bar*
Dimensions mm	
Width	*130*
Depth	*370*
Height	*195*
Weight kg	*10,3*



PNB-3P detail of the crimping zone.



BENCH PRESS RANGE

Type	Connector Type	Conductor Size sqmm
PNB-3P*	Insulated connectors red, blue and yellow	0,25÷6
PNB-3PD	Insulated terminals and butt connectors - frontal insertion	0,25÷6
PNB-3N1	Uninsulated terminals	0,25÷10
PNB-3N5	Uninsulated terminals	10÷16
PNB-3NN3	Polyamide insulated terminals	1,5÷10
PNB-3NN4	Polyamide insulated terminals	10÷16
PNB-3F/M	Bullet connectors	0,5÷2,5

** Will also crimp Polycarbonate fully-insulated terminals if fitted with PNB3F/M positioner, available as an optional accessory (Cod. 6240145)*

BENCH PRESS TOOL

PNB-4KE

Pneumatic with multi-aperture die

Pneumatic bench press, operated by a manual control.
Supplied with a multi-aperture die suitable for crimping insulated and uninsulated end sleeves from 0,3 to 10 sqmm.
Compact and efficient. Easy to operate, producing a secure and reliable crimped connection.



TECHNICAL FEATURES

Nominal operating pressure	*6 bar*
Dimensions mm	
Width	*120*
Depth	*160*
Height	*300*
Weight kg	*6*



PNB-4KE detail of the crimping zone.



MULTI DIES

Type	Connector Type	Conductor Size sqmm
PNB-4KE	End Sleeves type PK.. and type KE	0,3÷10

CEMBRE

EPB-1N

ELECTRO-PNEUMATIC BENCH PRESS

automatic stripping / crimping machine for insulated end sleeves

DURABLE ERGONOMIC PROTECTED SILENT TRAPEZIUM CE

Bench press type EPB-1N, electro-pneumatically operated, is designed for stripping and crimping insulated end sleeves CEMBRE type PKC, PKD and PKE.
The basic configuration processes connectors of c.s.a 0,5/0,75/1,0 and 1,5 mm² with a sleeve lengths of 6, 8, 10 and 12 mm.
Adapter kits are available:
KIT-2.5-EPB1N
for insulated end sleeves c.s.a 2,5 sqmm with a sleeve length of 8, 10 and 12 mm
KIT-4-EPB1N
for insulated end sleeves c.s.a 4,0 sqmm with a sleeve length of 10 mm
Stripping and crimping operations are carried out in quick succession. Adjustable loading speed of vibrating charger.
Quick and easy change of configuration for different connector sizes. Automatic adjustment of operating perameters to suit each configuration.
Modular structure and wear-free components guarantee excellent reliability.





Adapter Kit for insulated end sleeves c.s.a 2,5 sqmm
(KIT-2.5-EPB1N)
(KIT-4-EPB1N)



TECHNICAL FEATURES

Crimping Range	*0,5-1,5 mm² (basic configuration)*
Dimensions mm	
Length	*390*
Width	*240*
Height	*490*
Weight kg	*29*
Power Supply	*230 V/50 Hz (110 V/60 Hz)*
Current	*0,5 A*
Length of crimp	*6, 8, 10 and 12 mm*
Geometry of crimp	*Trapezoidal*
Cycle time	*2 s*
Compressed Air supply	*Min. 4 - Max 6 bar*
Air consumption	*1,2 l / cycle*
Cycle controller	*Electro-pneumatic, with microprocessor*
Counter	*Digital*



PNEUMATIC CRIMPING TOOLS

Hand held - PNB series

PNB-6KE
PNB-7KE

PNB-6KE TECHNICAL FEATURES

Crimping Range	*0,25 ÷ 2,5 sqmm / 24 ÷ 14 AWG*
Dimensions mm	
Length	*190*
Width Ø	*44*
Length with spiral hose	*2 m*
Weight g	*450*

PNB-7KE TECHNICAL FEATURES

Crimping Range	*4 ÷ 10 sqmm / 12 ÷ 8 AWG*
Dimensions mm	
Length	*190*
Width Ø	*44*
Length with spiral hose	*2 m*
Weight g	*450*

PNB-6KE and PNB-7KE hand tools facilitate the rapid crimping of insulated end sleeves while avoiding the operator discomfort associated with ordinary manual tools.
Lightweight and easy to use, these tools are ideal for panel building applications and component assembly.

Both tools are designed to be maintenance-free and need no routine calibration. A 4-6 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.







PNEUMATIC CRIMPING TOOLS

Bench mounted tools with foot pedal - PNB series

PNB-6KE-T
PNB-7KE-T

PNB-6KE-T TECHNICAL FEATURES

Crimping Range	*0,25 ÷ 2,5 sqmm / 24 ÷ 14 AWG*
Dimensions mm	
Length	*200*
Width Ø	*135*
Height	*75*
Length with spiral hose	*2 m*
Weight g	*1000*

PNB-7KE-T TECHNICAL FEATURES

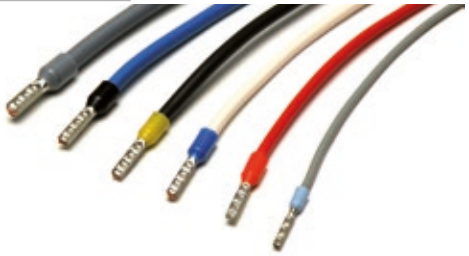
Crimping Range	*4 ÷ 10 sqmm / 12 ÷ 8 AWG*
Dimensions mm	
Length	*200*
Width Ø	*135*
Height	*75*
Length with spiral hose	*2 m*
Weight g	*1000*

PNB-6KE-T and PNB-7KE-T have bench mounts with storage and are foot pedal operated to allow operators to have both hands free when assembling cable harnesses. Both tools are designed to be maintenance-free and need no routine calibration.



A 4-6 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.





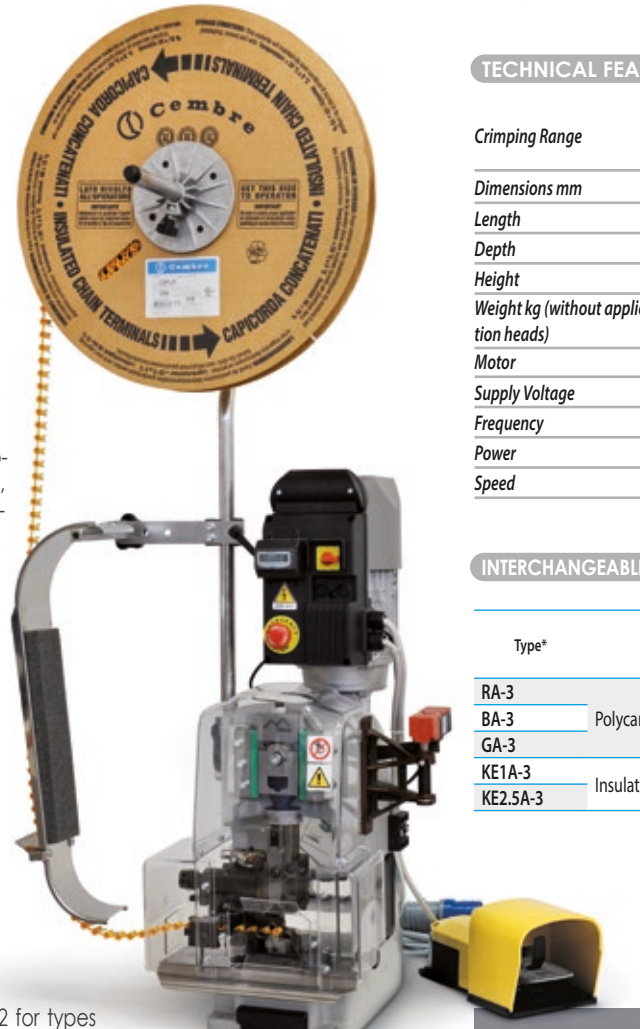
CEMBRE

ELB-3

BENCH PRESS

for Polycarbonate insulated chain connectors

DURABLE · ERGONOMIC · SILENT · PROTECTED · RADIAL · TRAPEZIUM · CE



Electro-pneumatic, production bench press, controlled by a foot operated pedal.
Producing a consistent and reliable crimped connection.
Interchangeable application heads available to suit the complete range of Polycarbonate insulated connectors.

See pages 12-13 and 22 for types and features of the insulated chain connectors and end sleeves.

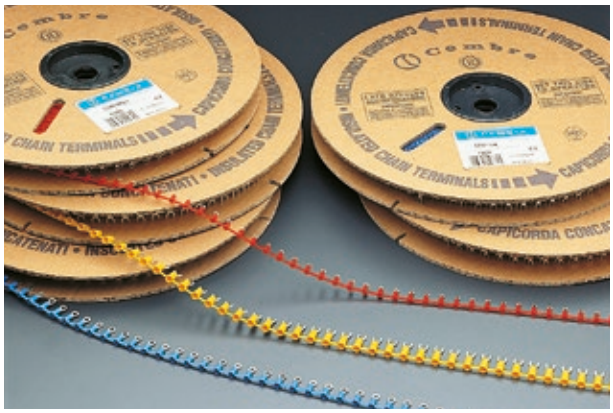
TECHNICAL FEATURES

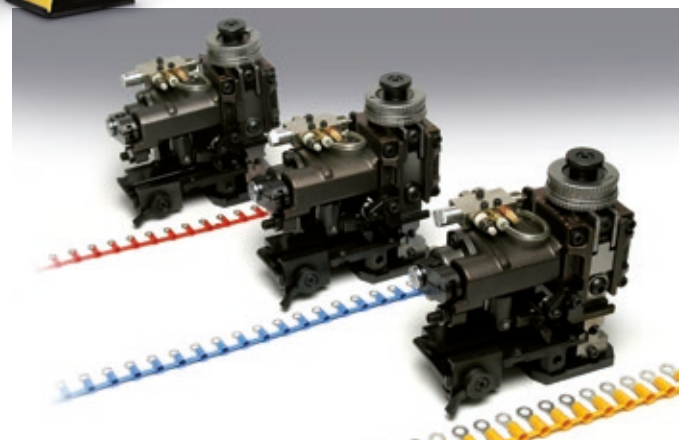
Crimping Range	*Polycarbonate insulated chain terminals 0,25 ÷ 6 mm² and insulated chain end sleeves 0,5 ÷ 2,5 mm²*
Dimensions mm	
Length	*180*
Depth	*250*
Height	*620*
Weight kg (without application heads)	*41*
Motor	
Supply Voltage	*220 V*
Frequency	*50 Hz*
Power	*0,55 kW/0,75 HP*
Speed	*2.800 g/1'*

INTERCHANGEABLE APPLICATION HEADS, SIDE ENTRY WITH PNEUMATIC FEED

Type*	Connectors	Conductor Size sqmm
RA-3	Polycarbonate insulated chain terminals	0,25÷1,5
BA-3		1,5÷2,5
GA-3		4÷6
KE1A-3	Insulated chain end sleeves	0,3÷0,75
KE2.5A-3		1÷2,5

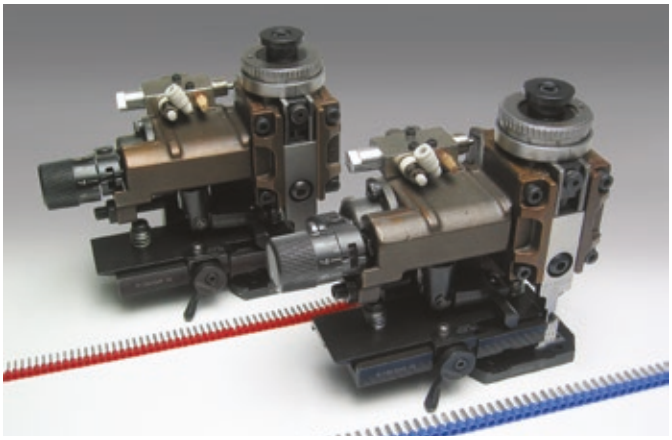
** order as required*







Conforms to DIN Standard 46 228/4



PROFESSIONAL EQUIPMENT



CEMBRE

SYMBOL DESCRIPTION

professional equipment



Can be operated with one hand



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced for greater control



Dual-compound plastic handles
Greater safety and comfort in handling, thanks to the rubber inserts



Durable moulded body offering high resistance to wear and damage in all operating conditions



Max cutting section



High hardness blades



Stainless steel blades



High tensile steel blades



Micro-serrated blades for anti-slip purpose



Special Steel frame for high resistance and a long life



Chrome Steel Tools



Chrome Vanadium Steel Tools



Aluminum frame



ABS structure



Luminous flux intensity



Equipped with USB charging



Equipped with wireless charging



Equipped with magnetic support



Equipped with power plug

SYMBOL DESCRIPTION

professional equipment

Equipped with dimmer switch

Equipped with an ON / OFF motion sensor

Can be used as an power bank

Degree of Protection

Lamp life in Front / Flashlight mode

Autonomy of the lamp at Maximum / Minimum intensity

The light can be tripod mounted

Control with App

CE marking

UKCA marking

Operating temperature range



CEMBRE

PROFESSIONAL SCISSORS SC5X

For flexible conductors Cu-Al

Robust-A

Professional scissors with a Special Steel frame for high resistance and long life.
Ergonomic and dual-compound plastic handles: glass fibre reinforced Polyamide and inserts of soft Rubber.
The anti-loosening pivot and bevelled profile allow the accurate and consistent alignment of the blades.
High hardness blades (58 HRC) and an anti-slip serrated edge for making precise cuts even on more difficult materials.
Shaped groove for cutting conductor up to 50 mm².

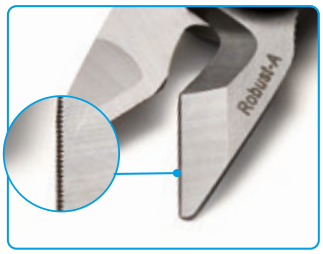
Supplied with carry case and swivel belt hook.

Special Steel frame for high resistance and a long life



DESIGN REGISTERED





Micro serrated blade



Anti-loosening pivot



Dual-compound material



Case with swivel belt hook

PROFESSIONAL SCISSORS SC6X

SC6X

For flexible conductors Cu-Al

Weighing only 86 grams these lightweight scissors feature tapered blades and ergonomically shaped handles to aid speed of operation and consistent results.
The design of the blades allows the scissors to be used in confined spaces and affords the user minimum effort when cutting conductors.
Handles have an integrated crimping system for end sleeves.
The anti-loosening pivot and bevelled profile allow the accurate and consistent alignment of the blades.
High hardness blades (58 HRC) and an anti-slip serrated edge for making precise cuts even on more difficult materials.
Shaped groove for cutting conductor up to 50 mm².

Supplied with carry case and belt fastening system.

lightweight design only 86 grams





Eyelets aligned when handles in open position

Soft rubber inserts to maximise grip

Crimping system for end sleeves

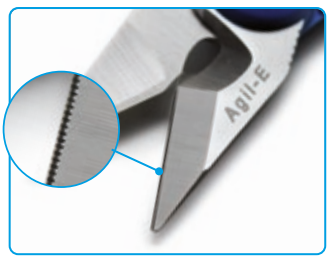
Shaped groove in each blade for easy cutting up to 50 mm²

Anti-slip serrated edge for making precise cuts even on more difficult materials

High hardness blades (58 HRC)

Anti-loosening pivot

Economically shaped hand grips



Micro serrated blade



Anti-loosening pivot



Dual-compound material



Case with belt fastening system

CEMBRE

SC5X

PROFESSIONAL SCISSORS SC RANGE

For flexible conductors Cu-Al





Professional scissors with a Special Steel frame for high resistance and a long life.
Extremely lightweight and robust for safe, easy handling and comfort. Easy cutting of conductors upto 50 sqmm using the shaped grooves in each blade.
Safe and easy operation even when wearing work gloves.

Main Features

Cutting Capacity	*for flexible conductors Cu - Al up to max section 50 sqmm*
Dimensions mm	
Length	*162*
Width	*77*
Height	*18*
Weight g	*121*



SC6X

PROFESSIONAL SCISSORS SC RANGE

For flexible conductors Cu-Al





Weighing only 86 grams these lightweight scissors feature tapered blades and ergonomically shaped handles to aid speed of operation and consistent results.
The design of the blades allows the scissors to be used in confined spaces and affords the user minimum effort when cutting conductors.
Handles have an integrated crimping system for end sleeves.

Main Features

Cutting Capacity	*for flexible conductors Cu - Al up to max section 50 sqmm*
Dimensions mm	
Length	*153*
Width	*73,6*
Height	*18*
Weight g	*86*



PROFESSIONAL SCISSORS SC RANGE

SC3X

For flexible conductors Cu-Al

Main Features

Cutting Capacity	for flexible conductors Cu - Al up to max section 35 sqmm
Dimensions mm	
Length	150
Width	75
Height	20
Weight g	86

Multi-purpose scissors with high hardness blades (56 HRC) and anti slide serrations.
The moulded plastic handles combine a rigid structure with a softer material for finger comfort.
Cutting of flexible conductors up to 35 sqmm





PROFESSIONAL SCISSORS SC RANGE

SC1

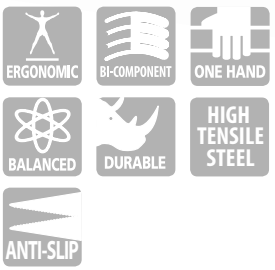
For flexible conductors Cu-Al

Main Features

Cutting Capacity	for flexible conductors Cu - Al
Dimensions mm	
Length	145
Width	76
Height	17
Weight g	78

Electricians scissors with high tensile steel blades allowing for excellent strength and performance. Specially micro-serrated blades for anti-slip purpose. Handles are made from dual component materials.





CEMBRE

CBL01

150 LUMEN · MAGNETIC · IP20 · USB CHARGE · DURATION FRONT/TORCH 2,5/3,5h · CE · UK CA

CBLIGHT

pocket torch



Pocket torch CBL01

The handy CBL01 torch is the size of a pen and is equipped with a double light point to illuminate small work areas. The side light allows you to illuminate the area while leaving it in your pocket, while the front light allows you to inspect less accessible areas. The clip is equipped with a magnet allowing it to be attached to any metal surface, freeing the operator's hands. Supplied with USB charging cable.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL01	*150 / 70*	*2.5 / 3.5 h*	*A++*	*Yes*	*USB*	*IP20*	*-10 / +40*	*ABS*	*PC*	*160 x 15 x 20*	*38*

CBL02-W

Tool Type	Plug Type	Supplied Battery Charger Type
CBL02-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL02-WE	PLUG UK	ASC55-UK with UK plug
CBL02-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

400 LUMEN · MAGNETIC · IP54 · WIRELESS CHARGE · USB CHARGE · MOTION SENSOR · DURATION FRONT/TORCH 3/5h · CE · UK CA

CBLIGHT

head torch



Head torch CBL02-W

Ideal for any indoor or outdoor activity requiring localised lighting and freedom of action, the CBL02-W head torch is equipped with a touch sensor allowing operation even while wearing gloves. The light intensity can be modulated via the dimmer function helping to preserve battery life.
The CBL02-W is a versatile head torch adjustable by means of an elastic band to fit work helmets of various sizes.
Supplied with USB charging cable and charger.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL02-W	*400 / 80*	*3 / 5 h*	*A++*	*Yes*	*USB / Wireless*	*IP54*	*-10 / +40*	*ABS+PC*	*PC*	*78 x 39 x 36*	*105*

CBL03-W

Tool Type	Plug Type	Supplied Battery Charger Type
CBL03-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL03-WE	PLUG UK	ASC55-UK with UK plug
CBL03-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

300 LUMEN · MAGNETIC · IP65 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 3/6h · CE · UK CA

CBLIGHT

multi-purpose lamp



Multi-purpose lamp CBL03-W

The CBL03-W multi-purpose lamp is a mini-lamp that can be used on a table or hung on metal surfaces thanks to the handy magnet or the suspension hook.

It is equipped with an ergonomic non-slip handle to make it easy to use.
The 2 light points with dimmer function allow you to modulate the intensity and battery life as needed.
The compact design makes it ideal as a pocket lamp for storage in a jacket pocket or work trousers.
Supplied with USB charging cable and charger.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL03-W	*300 / 100*	*3 / 6 h*	*A++*	*Yes*	*USB / Wireless*	*IP65*	*-10 / +40*	*ABS*	*PC*	*133 x 68 x 25*	*190*

CBLIGHT

space-saving floor lamp

CBL04-W

The most versatile of the family is the CBL04-W, which has a double light point, 2 dimmable light intensities, a rotatable and foldable stem and allows ideal lighting in all conditions.
The double magnetic support and the suspension hook allow the lamp to be secured anywhere with ease.

Designed to be easy to carry in a bag or trouser pocket while also offering excellent battery life and low weight portability.
The compact design ensures the CBL04-W is the ideal solution for inspecting difficult to reach areas.
Supplied with USB charging cable and charger.

Tool Type	Plug Type	Supplied Battery Charger Type
CBL04-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL04-WE	PLUG UK	ASC55-UK with UK plug
CBL04-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug



Space-saving floor lamp CBL04-W

600 LUMEN · MAGNETIC · IP54 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 2,5/8h · CE · UKCA

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL04-W	*600 / 100*	*2.5 / 8 h*	*A++*	*Yes*	*USB / Wireless*	*IP54*	*-10 / +40*	*ABS*	*PC*	*175 (325 max) x 44 x 38*	*246*

CBLIGHT

portable lamps

CBL05-W

An ergonomic bi-component plastic handle makes the CBL05-W the most comfortable and robust lamp in the series, particularly suited to lengthy inspection work.
Featuring two light points, dimmer function and a long battery life.

Equipped with magnetic table support with retractable suspension hook.
Supplied with USB charging cable and charger.

Tool Type	Plug Type	Supplied Battery Charger Type
CBL05-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL05-WE	PLUG UK	ASC55-UK with UK plug
CBL05-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug



Portable lamps CBL05-W

600 LUMEN · MAGNETIC · IP65 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 2,5/10h · CE · UKCA

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL05-W	*600 / 100*	*2.5 / 10 h*	*A++*	*Yes*	*USB / Wireless*	*IP65*	*-10 / +40*	*PC*	*PC*	*205 x 55 x 40*	*300*

CEMBRE

CBL06

CBLIGHT

portable spotlight for small-medium work environments

Tool Type	Plug Type	Supplied Battery Charger Type
CBL06	PLUG EU	ASC55-EU with EUROPEAN plug
CBL06E	PLUG UK	ASC55-UK with UK plug
CBL06A	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

2000 LUMEN · MAGNETIC · IP65 · USB CHARGE · POWER BANK · DURATION FRONT/TORCH 3,5/7h · CE · UKCA



The CBL06 portable spotlight meets the requirement of those who need to illuminate small-medium work environments.

The magnetic table mount allows the spotlight to be secured to metal surfaces.
The power bank function allows small devices to be charged via the USB output, useful for emergency situations.
Supplied with USB charging cable and charger.

Portable spotlight for small-medium work environments CBL06

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL06	*2000*	*3.5 / 7 h*	*A++*	*Yes*	*USB*	*IP65*	*-10 /+40*	*ABS*	*PC*	*195 x 125 x 48*	*800*

CBL07

CBLIGHT

portable spotlight for large work environments

Tool Type	Plug Type	Supplied Battery Charger Type
CBL07	PLUG EU	ASC55-EU with EUROPEAN plug
CBL07E	PLUG UK	ASC55-UK with UK plug
CBL07A	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

3000 LUMEN · IP65 · POWER BANK · POWER PLUG CHARGE · DURATION FRONT/TORCH 3/6h · CE · UKCA



The diffused light emitted by the CBL07 spotlight enables the illumination of large areas.
Light, practical and sturdy, this spotlight is quick to install.
The power bank function allows small devices to be charged via the USB output, useful for emergency situations.
Supplied with charger.

Portable spotlight for large work environments CBL07

Main Features

Type	Lumen	Duration	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL07	*3000 / 1500*	*3 / 6 h*	*A+*	*No*	*Power Plug*	*IP65*	*-10 /+40*	*ABS*	*PC*	*277 x 213 x 86*	*1400*

CBLIGHT

wireless charging bases

BCB1-W
BCB2-W

The BCB1-W and BCB2-W charging bases make it possible to keep the lamps fully charged meaning they are always ready for use.
The magnetic construction allows quick attachment to metal surfaces along with holding the lamps in place during charging.

The BCB1-W single base is designed to recharge a single lamp. The BCB2-W allows 2 lamps to be charged at the same time.
Supplied with USB charging cable and charger.

IP20 · MAGNETIC · WIRELESS CHARGE · USB CHARGE · CE · UKCA



BCB2-W

BCB1-W

Wireless charging bases

Tool Type	Plug Type	Supplied Battery Charger Type
BCB1-W	PLUG EU	ASC55-EU with EUROPEAN plug
BCB1-WE	PLUG UK	ASC55-UK with UK plug
BCB1-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

Tool Type	Plug Type	Supplied Battery Charger Type
BCB2-W	PLUG EU	ASC55-EU with EUROPEAN plug
BCB2-WE	PLUG UK	ASC55-UK with UK plug
BCB2-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

Main Features

Type	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Dimensions mm	Weight g
BCB1-W	*Yes*	*USB/Wireless*	*IP20*	*-10/+40*	*ABS*	*150 x 106 x 18 (single)*	*190*
BCB2-W	*Yes*	*USB/Wireless*	*IP20*	*-10/+40*	*ABS*	*202 x 106 x 18 (double)*	*270*

CBLIGHT

extendable tripod

TRCB2

The TRCB2 tripod can be extended up to a maximum of 2.0 m, and offers maximum flexibility to position CBLIGHT lamps at the desired height.
When mounted on the tripod, the light can be tilted at will to provide the optimal beam angle.
Its robust structure makes it safe even when it is fully extended.





Type	Suitable for Lamp Type
TRCB2	CBL06 CBL07

Extendable tripod TRCB2

Main Features

Type	Body Material	Minimum height open mm	Max height open mm	Base Ø maximum mm	Dimensions Closed mm	Weight g
TRCB2	*Steel*	*1130*	*2000*	*1000*	*1030 x 160*	*3200*

CEMBRE

CBL08HD

CBLIGHT HD

multipurpose portable headlight

2000 LUMEN · IP30 · POWER BANK · USB · DIMMER · DURATION MAX/MIN 5,75/58h · CE · UKCA



Compatible with the battery system **METABO/CAS**

The powerful and compact CBL08HD work light is designed for professional use.
The headlight is equipped with the latest high COB LED technology performance and provides up to 2000 lumens.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.
Built-in dimmer function allows you to adjust the emission of light in five different levels.
Integrated power bank with USB socket for charging devices furniture.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 243)



Multipurpose portable headlight CBL08HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL08HD	*2000*	*5.75 / 58 h*	*Yes*	*No*	*CB1820L / CB1852L PSCB18-EU*	*IP30*	*IK07*	*-10/+40*	*AL*	*PC*	*161 x 164 x 78*	*720*

CBL09HD

CBLIGHT HD

portable lighthouse for medium environments

4000 LUMEN · IP65 · POWER BANK · USB · DIMMER · DURATION MAX/MIN 3/31h · TRIPOD READY · APP · Bluetooth · CE · UKCA



Bluetooth®

Compatible with the battery system **METABO/CAS**

The powerful and robust CBL09HD is equipped with the latest COB LED technology and provides up to 4000 lumens, which the makes a all-round universal work beacon for the user more demanding professional.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.
CBL09HD also has an internal backup battery that provides up to 2.5 hours more at 400 lumens.
With the easy-to-use BLUETOOTH control app, you have the ability to control on/off and control up to four working lights via one device mobile.
Built-in dimmer function allows you to adjust the light output in five different levels. Integrated power bank with USB socket for charging mobile devices.
Equipped with an integrated carrying handle.
It can be mounted on a stand CEMBRE TRCB1.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 243)



Portable lighthouse for medium environments CBL09HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL09HD	*4000*	*3 / 31 h*	*Yes*	*Yes*	*CB1820L / CB1852L PSCB18-EU*	*IP65*	*IK07*	*-10/+40*	*AL*	*PC*	*263 x 230 x 119*	*2.35*

CBLIGHT HD

portable lighthouse for large environments

CBL10HD

The powerful and robust CBL10HD is equipped with the latest COB LED technology and provides up to 10,000 lumens, which the makes a all-round universal work beacon for the user more demanding professional.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.

CBL10HD also has an internal back-up battery that provides up to 1 hour more at 1,000 lumens.
With the easy-to-use BLUETOOTH control app, you have the ability to control on/off and control up to four working lights via one device mobile.
Built-in dimmer function allows you to adjust the light output in five different levels. Integrated power bank with USB socket for charging mobile devices.
Equipped with an integrated carrying handle.

It can be mounted on a stand CEMBRE TRCB1.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 243)





Bluetooth®

CAS

Compatible with the battery system **METABO/CAS**

Portable lighthouse for large environments CBL10HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL10HD	*10.000*	*1.25 / 12 h*	*Yes*	*Yes*	*CB1820L / CB1852L PSCB18-EU*	*IP65*	*IK07*	*-10 /+40*	*AL*	*PC*	*304 x 292 x 131*	*3.72*

CBLIGHT HD

360 degree portable light

CBL11HD

CBL11HD provides scattered and uniform light at 360 degrees up to 10,000 lumen which is ideal for the professional requiring lighting that is powerful and efficient for the entire working area. It is ideal for any type of repair, painting or construction work.
Compact design with carrying handle makes it extremely handy and easy to move.

Switch lighting 360degree/180.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.
CBL11HD also has an internal back-up battery that provides up to 50 minutes more at 1,000 lumens.
With the easy-to-use BLUETOOTH control app, you have the possibility to control on/off and adjust the light output via a mobile device.
Built-in dimmer function allows you to adjust the light output in five different levels. Integrated power bank with USB socket for charging mobile devices.
Equipped with an integrated carrying handle.
It can be mounted on a stand CEMBRE TRCB1.

The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 243)





Bluetooth®

CAS

Compatible with the battery system **METABO/CAS**

360 degree portable light CBL11HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL11HD	*10.000*	*1 / 22 h*	*Si*	*Si*	*CB1820L / CB1852L PSCB18-EU*	*IP65*	*IK07*	*-10 /+40*	*AL*	*PC*	*395 x 200 x 212*	*3.7*

CEMBRE

CBL12HD

CBLIGHT HD

tower lite

5000 LUMEN | IP30 | DIMMER | DURATION MAX/MIN 2/4.5h | CE | UKCA



CBL12HD is a tripod with two integrated projectors capable of providing up to 5000 lumens.
Equipped with flexible and rotatable 360° projectors, the lights can be positioned in different directions to get the angle of desired lighting, providing a perfect condition of lighting for every working need.
It is extensible up to 2 meters and has 2 light levels (50-100%).

Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18- EU power supply for direct power providing unlimited availability of light.
Equipped with integrated handle and fast bending system, TOWER LITE is compact, lightweight and easy to carry.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 243)

CAS CORDLESS ALLIANCE SYSTEM

Compatible with the battery system **METABO/CAS**





Tower lite CBL12HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL12HD	*5.000*	*2 / 4.5 h*	*Yes*	*No*	*CB1852L, PSCB18-EU*	*IP30*	*IK07*	*-10 / +40*	*AL*	*PC*	*121 x 153 x 892*	*5.2*

TRCB1

CBLIGHT HD

tripod



The TRCB1 tripod is extendable by yourself 1.35 m up to a maximum of 3 m, and offers
maximum flexibility to position the CBLIGHT HD lights at the desired height.
When mounted on the tripod, the light can be tilted as desired to provide the optimal beam angle.

Its robust structure makes it safe even when it is fully extended.
Comes with anchor points which offer greater stability if the tripod is exposed to strong wind or you located on an uneven surface.

Tripod TRCB1

Main Features

Type	Suitable for Lamp Type	Maximum load kg	Weight kg
TRCB1	*CBL09HD CBL10HD CBL11HD*	*10*	*6*





CBLIGHT HD

power supply



Power supply for CBLIGHT HD

Main Features

Type	Input - Output	Suitable for Lamp Type	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Dimensions mm	Weight kg
PSCB18-EU	*100-240V AC 50/60Hz - 18V DC 5A*	*CBL08HD CBL09HD CBL10HD CBL11HD CBL12HD*	*IP65*	*IK07*	*-10/+40*	*124 x 83 x 72*	*1.0*

PSCB18-EU

Tool Type	Plug Type	
PSCB18-EU	PLUG EU	with EUROPEAN plug
PSCB18-UK	PLUG UK	with UK plug
PSCB18-USA/CA	PLUG USA CAN	with USA/CANADA plug

Power supply for direct power supply of portable lights of the series CEMBRE CBLIGHT HD.

Power supply compatible only with CBLIGHT-HD, not suitable for cordless tools.

CBLIGHT HD

accessories

ASC55-EU

ASC55-EU, charger
(INPUT 220-240 V / 50-60 Hz;
OUTPUT 12-42 V DC / 3.0 A max.)



03.61C



Battery adapters for CBLIGHT HD
Smart adapters designed to use 18V/20V batteries from other manufacturers on the CEMBRE CBLIGHT HD series work lights.
Each adapter is compatible with the 18V/20V batteries supplied with the most popular brands of power tools. Simply mount the specific adapter on the work light, connect the battery and you are ready to work.

Type	Suitable for battery type
03.6149C	MILWAUKEE
03.6148C	MAKITA
03.6140C	BOSCH/AMPSHARE
03.6157C	HILTI
03.6142C	DEWALT

CB1820L, battery
Li-Ion 18.0V 2.0Ah

CB1820L



CB1852L, battery
Li-Ion 18.0V 5.2Ah

CB1852L



MBCB-1

MAGNET BRACKET
Compact and very powerful magnetic bracket designed for flexible mounting and positioning of CBL09HD on any metallic surface.



MBCB-1D

DOUBLE MAGNET BRACKET
Extremely powerful magnetic bracket designed for flexible mounting and positioning of CBL09HD and CBL10HD on any metallic surface.
The bracket has 2 extremely powerful magnets.



SBCB-1

SCAFFOLDING BRACKET
Specially designed to fix CBL09HD and CBL10HD lamps on scaffoldings.
The mount can be attached to any round object Ø40-50 mm.



CEMBRE

SDC-KV

PROFESSIONAL SCREWDRIVERS SDC RANGE

insulated

ERGONOMIC | BI-COMPONENT | ONE HAND | BALANCED | DURABLE | CHROME STEEL | 55-59 HRC

C 1000V EN/IEC - 60900



To ensure quick identification, the type and size of the head are indicated in different colours on the back of the handle.

The heads are made from Chromium Molybdenum steel with a hardness of 55-59 HRC and are hardened with Phosphoric Manganese Acid to increase corrosion resistance; the size of the insulating cover allows it to be inserted into tight spaces.

Each individual screwdriver is tested in accordance with EN 60900



Blade type identification on the back of the handle

The CEMBRE range of insulated screwdrivers have dual compound handgrips and an ergonomic design making them particularly practical and comfortable in the following modes of use:

- **Normal**
- **Fast**
- **Forced**





Head type identification codes:

- **White** - Flat head
- **Yellow** - "Phillips" cross head
- **Green** - "Pozidriv" cross head
- **Red** - "Phillips" combination head
- **Blue** - "Pozidriv" combination head
- **Orange** - "Torx" six point star head



Steel tips



Ergonomic handle



Hand guard



Attachment hole

insulated



Flat head screwdrivers

Main Features

Type	Head Dimensions mm		Blade Length mm	Total Length mm	Weight g
	Width	Thickness			
SDC3X100-KV	3	0,5	100	185	32
SDC3.5X100-KV	3,5	0,6	100	185	35
SDC4X100-KV	4	0,8	100	205	58
SDC5.5X125-KV	5,5	1,0	125	230	78
SDC6.5X150-KV	6,5	1,2	150	265	115
SDC8X175-KV	8	1,2	175	298	181



PH Phillips cross head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC0PH-KV	PH0	60	145	29
SDC1PH-KV	PH1	80	188	64
SDC2PH-KV	PH2	100	215	94



PZ Pozidriv cross head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC0PZ-KV	PZ0	60	145	29
SDC1PZ-KV	PZ1	80	188	64
SDC2PZ-KV	PZ2	100	215	94



PHSL Phillips combination head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC1PH-SL-KV	PH1 SL	80	188	65
SDC2PH-SL-KV	PH2 SL	100	215	94



PZSL Pozidriv combination head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC1PZ-SL-KV	PZ1 SL	80	188	65
SDC2PZ-SL-KV	PZ2 SL	100	215	94



TORX six point star head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC10TX-KV	TX10	80	185	60
SDC15TX-KV	TX15	80	185	63
SDC20TX-KV	TX20	100	205	68
SDC25TX-KV	TX25	100	205	73
SDC30TX-KV	TX30	115	230	100
SDC40TX-KV	TX40	130	245	118

PROFESSIONAL SCREWDRIVERS SDC RANGE

for various uses

Flat head screwdriver with mains tester

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Head Size	Length		
SDC3X60-PD	3	65	153	34

A fully functioning flat head screwdriver with a completely transparent handle allowing visibility of the indicator from any angle, ensuring high safety.

- Transparent handle
- High quality head
- Ergonomic design
- Pocket clip with spring



Screwdriver with 45° angled flat head

Main Features

Type	Head Dimensions mm		Blade Length mm	Total Length mm	Weight g
	Width	Thickness			
SDC2.5X55B	2,5	0,55	55	143	28
SDC3.5X55B	3,5	0,55	55	143	29

Screwdriver with angled head, ideal for terminals, sensors and actuators.



Flat head stubby screwdriver

Main Features

Type	Head Dimensions mm		Blade Length mm	Total Length mm	Weight g
	Width	Thickness			
SDCS2.5X55	5,5	2,5	25	75	37



Phillips cross head stubby screwdriver PH

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDCS1PH	PH1	25	75	38



Set of 7 Screwdrivers - KSDC7-KV

Main Features

Set consists of: Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Length		
SDC3X100-KV	3	100	185	32
SDC4X100-KV	4	100	205	58
SDC5.5X125-KV	5,5	125	230	78
SDC6.5X150-KV	6,5	150	265	115
SDC0PH-KV	PH0	60	145	29
SDC1PH-KV	PH1	80	188	64
SDC2PH-KV	PH2	100	215	94



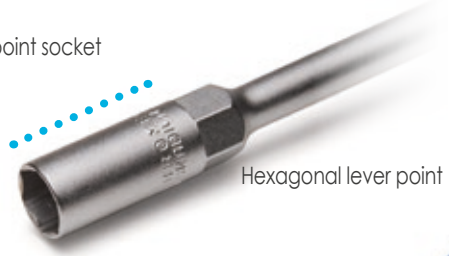
PROFESSIONAL HEX SOCKET SCREWDRIVERS

SDC

with reduced shank diameter



Deep point socket



Hexagonal lever point

Reduced shank diameter



Hex socket screwdrivers with reduced shank diameter

Main Features

Type	Head Dimensions mm	Blade Length mm	Total Length mm	Weight g
SDC7X125-HEX	7	125	243	97
SDC8X125-HEX	8	125	243	114
SDC9X125-HEX	9	125	243	132
SDC10X125-HEX	10	125	243	152

- Ergonomic handgrip for comfortable use without strain.
- Reduced external shank diameter allows the tool to be used in narrow spaces (relays and switches).
- Deep point socket ideal for long threads.
- Hexagonal lever point facilitates extra force without strain.
- Standards: ISO 6750 - ISO 2236



UNIVERSAL KEY UKC4

UKC

for switchboards



Universal key for switchboards UKC4

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
UKC4	72	72	14	92

Universal key for switchboards
Equipped with:
Triangular shape 7-8 mm
Double notch 3-5 mm
Square shape 5-6, 7-8 mm
Screwdriver bit and hexagonal holder

UPC-KV
TR-KV
SPC-KV
WPC-KV

PROFESSIONAL PLIERS

insulated

ERGONOMIC · BI-COMPONENT · ONE HAND · BALANCED · DURABLE · CHROME STEEL

1000V
EN/IEC - 60900

As for all CEMBRE insulated tools, each individual pair of pliers is tested in accordance with EN 60900

The design of CEMBRE insulated pliers and the use of dual-compound plastic material in the handle cover optimise the distribution of the force over the entire surface in contact with the palm of the hand.

This leads to:
- A reduction of the effort applied
- A greater transmitted force
- Safer grip
- Prevention of injury to the fingers between the handles





Gripping and cutting edges

Wide and safe hand guard



Soft articulated joint



Ergonomic hand grip



PROFESSIONAL PLIERS

insulated

UPC-KV
TR-KV
SPC-KV
WPC-KV



UPC Universal pliers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
UPC180-KV	180	27	11	287
UPC200-KV	200	32	11,6	381

TR Nippers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
TR160-KV	160	19	10	229

TR Heavy duty nippers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
TR200-KV	200	30	13	306

SPC Straight nose pliers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
SPC200-KV	200	21,5	10,7	257

SPC 45° nose pliers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
SPC200B-KV	200	21,5	10,7	261

WPC Pipe grips

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
WPC250-KV	250	29	7,7	380

WSC Wire stripper

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
WSC180-KV	180	21,7	9,5	240

For insulated cables from 0,75 to 6 mm^2

ERGONOMIC ONE HAND BALANCED DURABLE

CEMBRE offers a range of tool holders designed to provide professional users with practical and neat ways to optimise their time and working conditions.

Bag CTSB1

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
CTSB1	*420*	*250*	*340*	*3*

Practical tool bag in robust fabric, with 2 separate compartments to neatly arrange hand tools. Additional equipment may be accommodated via handy hooks and external pockets while documents are safely stored inside. A shoulder strap and sturdy metal handle make it easy to carry.



KIT-CTSB1-1
KIT-CTSB1-3

bag kit CTSB1-1



Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-CTSB1-1	*420*	*250*	*340*	*5,6*

CTSB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

bag kit KIT-CTSB1-3



Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-CTSB1-3	*420*	*250*	*340*	*6,8*

CTSB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

ERGONOMIC ONE HAND BALANCED DURABLE

Backpack CTBP1

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
CTBP1	*360*	*110*	*540*	*3,1*

Practical tool backpack in sturdy fabric, with reinforced non-slip rubber bottom. Equipped with internal and external pockets to arrange the manual tools in a rational way, and a PC pocket. Thanks to the practical front opening and the different compartments, it is possible to insert documents and different equipment. The sturdy rubber handle and comfortable padded shoulder straps make it easy to carry.











KIT-CTBP1-1

soft line - backpack kit



Backpack kit CTBP1-1

Main Features

Type	Dimensions mm			Peso Kit kg
	Length	Width	Height	
KIT-CTBP1-1	*360*	*110*	*540*	*4,1*

CTBP1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	UPC180-KV	pliers 180 mm
1	HKS6	pocket hacksaw

ABS ERGONOMIC ONE HAND BALANCED DURABLE

ABS case VAL-GPTP

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
VAL-GPTP	*453*	*332*	*190*	*4,0*

Suitcase made of high thickness thermoformed ABS, complete with two tool panels with elastic bands for containing any tool and internal document / tablet pocket. Thermoformed bottom with adjustable dividers. Sturdy aluminum profile with 2 side locks with key.
Lid equipped with a stop to limit 90 ° opening and ergonomic handle.











KIT-VAL-GPTP-1
KIT-VAL-GPTP-2



ABS case kit VAL-GPTP-1

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTP-1	*453*	*332*	*190*	*6,6*

Case VAL-GPTP equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer



ABS case kit VAL-GPTP-2

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTP-2	*453*	*332*	*190*	*8,2*

Case VAL-GPTP equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

AL ERGONOMIC ONE HAND BALANCED DURABLE

Case VAL-GPTA-N

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
VAL-GPTA-N	*470*	*360*	*185*	*4,8*

Aluminium case containing two panels with elastic tool holders and an internal pocket for holding documents or a tablet. Thermoformed base with modular dividers. Fitted with an ergonomic carrying handle and a hinged lid with stop to limit the opening to 90°.
Equipped with shoulder strap.







KIT-VAL-GPTA-1
KIT-VAL-GPTA-2



Case Kit VAL-GPTA-1

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTA-1	*470*	*360*	*185*	*7,4*

Case VAL-GPTA-N equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer



Case Kit VAL-GPTA-2

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTA-2	*470*	*360*	*185*	*9,6*

Case VAL-GPTA-N equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

ERGONOMIC ONE HAND BALANCED DURABLE

Trolley TRL02

Main Features

Type	Dimensions mm				Weight kg
	Length	Width	Closed handle height	Open handle height	
TRL02	*480*	*250*	*400*	*1023*	*4,3*

Practical trolley mounted tool bag made of robust fabric, with 2 separate internal compartments to neatly arrange hand tools.
Easy front opening access and handy hooks, external pockets providing additional space and a document pouch on the inside of the lid.









KIT-TRL02-1
KIT-TRL02-2



Trolley Kit TRL02-1

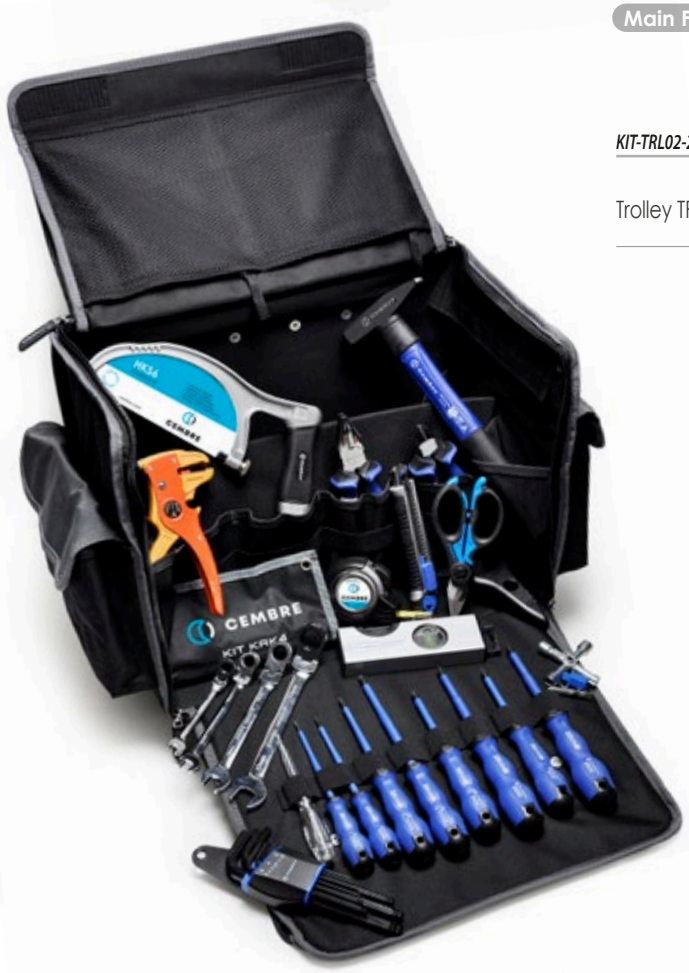
Main Features

Type	Dimensions mm				Weight Kit kg
	Length	Width	Closed handle height	Open handle height	
KIT-TRL02-1	*480*	*250*	*400*	*1023*	*6,8*

Trolley TRL02 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer



Trolley Kit TRL02-2

Main Features

Type	Dimensions mm				Weight Kit kg
	Length	Width	Closed handle height	Open handle height	
KIT-TRL02-2	*480*	*250*	*400*	*1023*	*8,0*

Trolley TRL02 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

VAL-GPT
KIT-VAL-GPT

PROFESSIONAL TOOL HOLDERS

hard line

ERGONOMIC ONE HAND BALANCED DURABLE

Chest VAL-GPT

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
VAL-GPT	*557*	*230*	*245*	*3,7*

Plastic tool chest with small parts holder on the lid; Removable internal tool tray. Metal latches; Aluminium handle and padlock facility.
Sufficiently robust to be used as a step when closed.
Stackable with other VAL GPT tool chests.



Chest Kit VAL-GPT-1

Main Features

Type	Dimensions mm			Weight Kit kg
	Length	Width	Height	
KIT-VAL-GPT-1	*557*	*230*	*245*	*5,48*

VAL GPT equipped with selection of tools



Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC6.5X150-KV	screwdriver 6,5x150
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	TR160KV	nippers 160mm
1	FLS3	measuring tape 3m
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

pouch

CTBB1
KIT-CTBB1



Pouch CTBB1

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
CTBB1	*230*	*150*	*50*	*84*

Made from soft and strong fabric, equipped with a fast stud belt fastening. It has handy preformed compartments for holding pliers, scissors and screwdrivers.

With SC5X scissor



Pouch Kit CTBB1-1

Main Features

Type	Dimensions mm			Weight Kit g
	Length	Width	Height	
KIT-CTBB1-1	*230*	*150*	*50*	*477*

CTBB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X100-KV**	screwdriver 3x100
1	**SDC3.5X100-KV**	screwdriver 3,5x100
1	**SDC4X100-KV**	screwdriver 4x100
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2

With SC6X scissor



Pouch Kit CTBB1-5

Main Features

Type	Dimensions mm			Weight Kit g
	Length	Width	Height	
KIT-CTBB1-5	*230*	*150*	*50*	*442*

CTBB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC6X**	scissors SC6X
1	**SDC3X100-KV**	screwdriver 3x100
1	**SDC3.5X100-KV**	screwdriver 3,5x100
1	**SDC4X100-KV**	screwdriver 4x100
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2

PROFESSIONAL SPANNERS

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



CW Combination Spanners

Main Features

Type	⬡ mm	Open width mm	Ring width mm	Open thickness mm	Ring thickness mm	Total Length mm	Weight g
CW60	6	16	10	4	5	110	15
CW70	7	17	11	4	5	120	19
CW80	8	19	13	4	6	130	24
CW100	10	23	16	5	7	150	35
CW110	11	26	17	5	7	160	47
CW130	13	30	20	6	8	180	68
CW140	14	32	21	6	9	190	79
CW150	15	34	23	6	10	200	89
CW170	17	37	26	7	10	220	124
CW180	18	39	27	7	11	230	149
CW190	19	41	28	7	11	240	166
CW220	22	47	32	8	13	270	227
CW240	24	51	35	8	14	290	293
CW270	27	56	39	9	15	320	374
CW300	30	62	43	10	15	350	475
CW320	32	66	46	10	16	370	580



- Chromium-vanadium steel tools
- Satin chrome finish.
- Ring head with 12 grip points, offset with respect to the handle to enable use in narrow spaces
- Open head tilted at 15° to reduce effort applied
- Standards: UNI ISO 3318 - ISO 7738 - DIN 3113



ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

KCW12 Combination Spanner Set

KCW12



Main Features

Type	Dimensions kit mm Length	Width	Height	Weight g
KCW12	460	362	65	1140

Set includes:

KCW12:
CW60 - CW70 - CW80 - CW100 - CW110
CW130 - CW140 - CW150 - CW170 - CW180
CW190 - CW220

Type	⬡ mm
CW60	6
CW70	7
CW80	8
CW100	10
CW110	11
CW130	13
CW140	14
CW150	15
CW170	17
CW180	18
CW190	19
CW220	22

KCW16 Combination Spanner Set

KCW16



Main Features

Type	Dimensions kit mm Length	Width	Height	Weight g
KCW16	712	480	80	3250

Set includes:

KCW16:
CW60 - CW70 - CW80 - CW100 - CW110
CW130 - CW140 - CW150 - CW170 - CW180
CW190 - CW220 - CW240 - CW270 - CW300 - CW320

Type	⬡ mm
CW60	6
CW70	7
CW80	8
CW100	10
CW110	11
CW130	13
CW140	14
CW150	15
CW170	17
CW180	18
CW190	19
CW220	22
CW240	24
CW270	27
CW300	30
CW320	32

KRK
KRS

PROFESSIONAL SPANNERS

in Chromium-vanadium steel

ERGONOMIC | ONE HAND | BALANCED | DURABLE | CHROMIUM VANADIUM STEEL



Combination spanners with jointed ratchet head KRK4

Main Features

Type	Dimensions kit mm			Weight g
	Length	Width	Height	
KRK4	*335*	*190*	*18*	*390*

- Sizes included: 8-10-13-17 mm
- Chromium-vanadium steel
- 180° swivel head
- Ratchet mechanism with 72 teeth and recovery angle of 5°.

Socket set ¼" drive KRS47

Main Features

Type	Dimensions kit mm			Weight g
	Length	Width	Height	
KRS47	*285*	*136*	*44*	*1655*

- Standards: UNI ISO 3315 - DIN 3122



Metal case contains:

Qty	description
1	reversible ratchet wrench with socket retention system
2	extensions
1	articulated joint
1	T bar with sliding handle
1	screwdriver style holder
13	sockets 4 to 14 mm
4	extended sockets 8 to 13 mm
3	screwdriver sockets 4 to 6.5 mm
3	screwdriver sockets PH1, PH2, PH3
3	screwdriver sockets PZ1, PZ2, PZ3
6	hex socket spanners 3 to 8 mm
3	hex Allen keys 1.5 to 2.5 mm
6	torx socket keys T10 to T40

PROFESSIONAL TORQUE WRENCHES

in Chromium-vanadium steel

TWC

CEMBRE professional reversible torque wrench range TWC will provide optimum torque setting when the threaded fastenings are paired with the same size sockets.
Correct tightening of threaded fastenings prevents:
- thread damage in case of high loading
- unintentional loosening in case of low loading

NEW · ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



TWC10.60-38N Torque Wrench

Main Features

Type	Dimensions mm Length	Width	Head Width	Weight g
TWC10.60-38N	389	33	28	940

- Adjustment range Nm: 10-60
- Drive size in: 3/8"



TWC20.100-38N Torque Wrench

Main Features

Type	Dimensions mm Length	Width	Head Width	Weight g
TWC20.100-38N	428	33	35	1040

- Adjustment range Nm: 20-100
- Drive size in: 3/8"



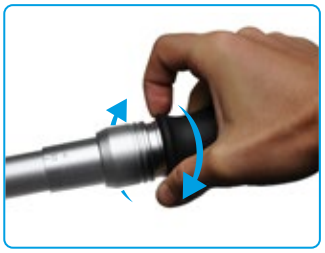
TWC40.220-12N Torque Wrench

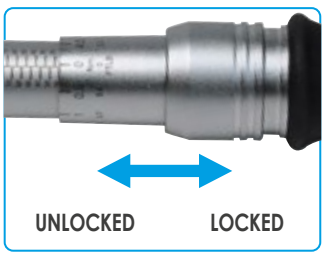
Main Features

Type	Dimensions mm Length	Width	Head Width	Weight g
TWC40.220-12N	507	40	40	1160

- Adjustment range Nm: 40-220
- Drive size in: 3/8"











CEMBRE

DSC KA CRH EBC STBC

PROFESSIONAL SOCKETS & DRIVES

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

Deep hexagonal sockets ½" drive DSC



Main Features

Type	mm	Dimensions mm Length	Ø Ext. hexagon	Ø Ext. drive	Weight g
DSC12-170L	17	77	23,8	22	120
DSC12-190L	19	77	25,7	24	134
DSC12-240L	24	77	31,8	27,8	210
DSC12-300L	30	77	39,9	34	300
DSC12-320L	32	77	41,8	35,8	336

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 2725 - DIN 3124

Adapters KA



Main Features

Type	Dimensions mm Length	☐ Female	■ Male	Ø Female	Weight g
KA14-38	26,5	1/4	3/8	13,9	21
KA38-14	26,3	3/8	1/4	18,8	25
KA38-12	36,1	3/8	1/2	19,2	52
KA12-38	35,99	1/2	3/8	21,7	52

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 3316 - DIN 3123

½" Reversible ratchet wrench CRH12

BI-COMPONENT



Main Features

Type	Dimensions mm Length	Height	Head Width	Weight g
CRH12	260	38	40	547

- Mechanism with 72 teeth and a recovery angle of 5°
- Reversible ratchet system • Ergonomic handle in dual-compound material
- Satin chrome finish • Chromium-vanadium steel
- Standards: UNI ISO 3315 - DIN 3122

½" Drive extension 250 mm long EBC12-250



Main Features

Type	Length	Weight g
EBC12-250	250	441

- Socket quick release system • Chromium-vanadium steel
- Satin chrome finish
- Standards: UNI ISO 3316 - DIN 3123

½" Drive T bar with sliding handle STBC12-300



Main Features

Type	Dimensions mm Length	Height	Head Width	Weight g
STBC12-300	300	25	24	365

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 3315 - DIN 3122

PROFESSIONAL SPANNERS & SOCKETS

in Chromium-vanadium steel

AWC

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



Adjustable wrench AWC300

Main Features

Type	Dimensions mm			Weight g
	Max Opening	Length	Width	
AWC300	*34*	*300*	*-*	*620*

- Chromium-vanadium steel wrench
- Phosphate finish
- Equipped with rapid adjustment and gap size measurement scale
- Wide-opening jaws for greater adaptability

PROFESSIONAL SPANNERS & SOCKETS

in Chromium-vanadium steel

KAK

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



Set of 9 male Allen keys KAK9

Main Features

Type	Dimensions kit mm			Weight g
	Length	Width	Height	
KAK9	*300*	*100*	*31*	*430*

- Sizes included: 1.5-2-2.5-3-4-5-6-8-10 mm
- Chromium-vanadium steel
- Long reach type
- Spherical head for use up to 30°
- Equipped with carrying case

Tool dimensions

A/F (mm)	(mm)	(mm)
1,5	78	14
2	84	16
2,5	92	18
3	102	20
4	110	24
5	123	28
6	144	32
8	163	36
10	178	40

HMR BLC CPC CPW

PROFESSIONAL HAMMMERS & REMOVAL TOOLS

for various uses

Hammer HMR300

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
HMR300	*300*	*104*	*23*	*300*



300 g bench hammer with patented anti-vibration triple compound handle.
Aluminium alloy 6082 T6 P-Al Si 1 Mg Mn head.
External surface of the handle in Polyamide A2800.
Thermoplastic rubber grip.
Complete with handle sleeve.

Hammer HMR500W

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
HMR500W	*320*	*106*	*27*	*500*



500 g bench hammer with Ash handle.
Complete with handle sleeve.

Chisel with hand protector BLC250

Main Features

Type	Dimensions mm				Weight g
	Total length	Blade width	Ø shaft	Ø handle	
BLC250	*250*	*23*	*16*	*34*	*492*



23 mm Chromium-vanadium steel blade with sturdy thermoplastic hand protector

Centre Punch CPC100-8

Main Features

Type	Dimensions mm			Weight g
	Length	Tip	Hexagon	
CPC100-8	*100*	*3*	*8*	*54*



Chromium-vanadium steel with Chrome finish

Crowbar CPW500

Main Features

Type	Dimensions mm		Weight g
	Length	Ø Hex. square	
CPW500	*500*	*16*	*1183*



Hexagonal section
C40 steel



Special blade and safety lock

Retractable Cutter HB18

Main Features

Type	Dimensions mm			Weight g
	Length	Height	Width	
HB18	*170*	*32*	*17*	*223*

Replaceable blade, adjustable from 18 mm and internal autoloader with 5 blades. Steel blade, metal handle, with soft Rubber anti-slip coating.
Safety lock for blade.



Hacksaw HKS12

Main Features

Type	Dimensions mm			Weight g
	Length	Height	Width	
HKS12	*400*	*140*	*32*	*600*

Hacksaw with 300 mm blade, dual-compound plastic frame, with soft anti-slip handle for a firm and secure grip.
Tensioner in the handle.



Hacksaw HKS6

Main Features

Type	Dimensions mm			Weight g
	Length	Height	Width	
HKS6	*270*	*115*	*20*	*215*

Hacksaw with 150 mm blade, metal frame, with 6 adjustments of the angle of the blade.
Soft Rubber anti-slip handle.



Blade BL12HKS

BL12HKS Spare blade for HKS12 (5 pieces)

Blade BL6HKS

BL6HKS Spare blade for HKS6 (10 pieces)



Files SFC200 - RFC200

Main Features

Second-cut square file	File Section mm	File Length mm	handle Length mm	Total Length mm	Weight g
SFC200	*8*	*200*	*110*	*310*	*108*

Second-cut round file	File diam. mm	File Length mm	handle Length mm	Total Length mm	Weight g
RFC200	*8,3*	*200*	*110*	*310*	*113*

Carbide steel
Hardness 62±2 HRC

Digital Multimeter CM02

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
CM02	*190*	*94*	*46*	*400*



TRMS

For measuring:

- AC Current and Voltage, True-rms for accurate check of non-linear signals.
- AC/DC Voltage up to 750V~ and 1.000V=
- AC/DC Current up to 10A
- Resistance
- Continuity
- Capacitance
- Frequency

Special Functions

- Data Hold
- Diode Test
- Transistor hFE Test
- Continuity Buzzer
- Temperature Probe (supplied)
- Auto Power Off

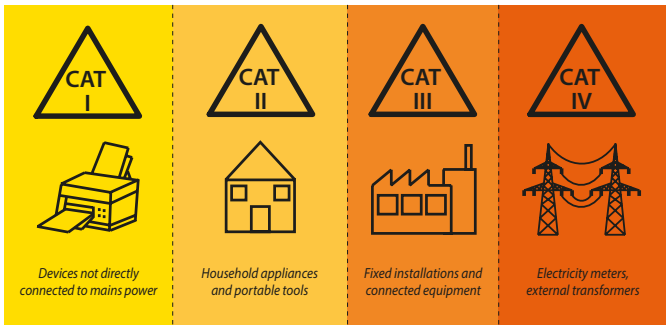
Standards: EN 61326-1: 2006 & CE marking

CM02 Specification

Basic Function	Range	Best Accurancy
DC Voltage	400mV/4V/40V/400V/1000V	±(0,5%+4)
AC Voltage	400mV/4V/40V/400V/1000V	±(0,8%+10)
DC Current	400µA/4000µA/40mA/400mA/10A	±(1%+10)
AC Current	400µA/4000µA/40mA/400mA/10A	±(1,5%+10)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ	±(0,8%+4)
Capacitance	10nF	±(5%+20)
	100Nf/1µF/10µF/100µF	±(3,5%+8)
	1mf/10mF/100mF	±(5%+10)
Frequency	100/1000/10k/100k/1M/30Mhz	±(0,5%+10)
Temperature	(-20°-1.000)°C	±(1,0%+5)



Overvoltage category CAT IV - 600V





Measuring Tapes FLS3 - FLS5

Main Features

Type	Tape dimensions		Casing Dimensions mm	Weight g
	Length	Width		
FLS3	*3 m*	*16 mm*	*71x62x33*	*166*
FLS5	*5 m*	*19 mm*	*83x71x36*	*252*

Professional measuring tapes with ergonomic hand grip, metal casing and rubber inserts. Tape coating in Polyamide to ensures durability, anti-friction and resistance to corrosion; with integrated magnetic hook. Automatic lock and dual locking button.

Spirit Levels LVL150 – LVL200 – LVL400

Main Features

Type	Dimensions mm		No. of tubes	Weight g
	Length	Width		
LVL150	*150*	*22*	*2*	*105*
LVL200	*200*	*22*	*2*	*157*
LVL400	*400*	*22*	*2*	*248*

Made from robust Aluminium profile, with precision 0.5 to 1 mm. Shock resistant tubes and high absorption protective caps.



Conical stepped drill-bit SC-PG1

Main Features

Type	Hole Ø range mm	Steps		Drill size mm		Weight g
		N°	Height mm	Length	Stem Ø	
SC-PG1	*6 - 37*	*12*	*2*	*100*	*10*	*293*

- Point geometry according to DIN 1412 C
- No pre-drilling
- Step angle 90



SC-PG1 - Hole sizes:

Step	Hole Ø mm	Clearance for PG thread
1	6,0	-
2	9,0	-
3	12,5	7
4	15,2	9
5	18,6	11
6	20,4	13.5
7	22,5	16
8	26,0	-
9	28,3	21
10	30,5	-
11	34,0	-
12	37,0	29

Conical stepped drill-bits - General characteristics

- Spiral shape facilitates quiet operation, precision of cut and removal of swarf
- Cutting capability unaffected by prolonged use
- Suitable for use on Ferrous metals and Thermoplastic materials up to 4 mm thickness
- Material: Cubic Boron Nitride (CBN)
- Corner point 118°
- Polished surface

Conical stepped drill-bit SC-M1

Main Features

Type	Hole Ø range mm	Steps		Drill size mm		Weight g
		N°	Height mm	Length	Stem Ø	
SC-M1	*6,5 - 40,5*	*11*	*2*	*96*	*10*	*303*

- Point geometry according to DIN 1412 C
- No pre-drilling
- Step angle 90



SC-M1 - Hole sizes:

Step	Hole Ø mm	Clearance for Metric thread
1	6,5	-
2	8.5	-
3	10,5	-
4	12,5	M12
5	16,5	M16
6	20,5	M20
7	25,5	M25
8	29.0	-
9	32,5	M32
10	36,5	-
11	40,5	M40

Conical countersink SK9038

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Length	Ø		
SK9038	*36*	*38*	*148*	*128*

Conical flaring for unalloyed steels, with ergonomic handle in two component material.
- 90° head angle
- 6-edged head
- Maximum diameter of flaring 38 mm



SB19
SB19-TIN

Sets of 19 Spiral Drill-Bits SB19

Main Features

Ideal for STEEL

Type

SB19

High speed, high performance, steel spiral drill-bits.
Cross-wise sharpening allows for good balance, reducing strain during the operation.
Spiral angle: 25-30°
Groove profile: standard
Core: standard
Back angle: 118°
Point geometry: Shape C
Weight: 675 g
Main use: Steel N/mm² <900, Cast iron
Secondary use: Steel N/mm² <1100, Stainless steel, Alluminium, Brass, Bronze.

Type

SB19-TIN

As type SB19 with additional:
TiN coating to increase operating life by 300 - 400%

SB19-TIN



SB19

Spiral Drill-bits SB19:

Spiral Drill-bits SB19-TIN:

ø mm	Length mm	
	Total	Useable
1	34	12
1,5	40	18
2	49	24
2,5	57	30
3	61	33
3,5	70	39
4	75	43
4,5	80	47
5	86	52
5,5	93	57
6	93	57
6,5	101	63
7	109	69
7,5	109	69
8	117	75
8,5	117	75
9	125	81
9,5	125	81
10	133	87

Set of 7 Hammer Drill-Bits SB7-SDS-PLUS

Main Features

Ideal for WALL

Type

SB7-SDS-PLUS

Drill-bits with a strengthened core, to allow optimum force transmission from start to finish.
Made from steel worked at a low temperature to achieve maximum resistance, and created with a spiral structure for efficient waste extraction during opeartion.
Suitable for rock, brick work, concrete, cement, granite, tiles and marble.
Fits all hammer drills with SDS-Plus and Hilti TE 10 double-groove shanks.
Corresponding to standard: ISO 5468-DIN 8039. Weight 752 g.



SB7-SDS-PLUS

Hammer Drill-bits SB7-SDS-PLUS:

ø mm	Length mm	
	Total	Useable
5	110	50
6	110	50
6	160	100
8	110	50
8	160	100
10	160	100
12	160	100

HYDRAULIC TOOLS AND HEADS



SYMBOL DESCRIPTION

hydraulic tools and heads



Crimping force kN



Double speed action: a rapid approach speed and a slower more powerful speed for crimping or cutting



Openable compression head, ideal for derivations from running conductors



Openable cutting head, ideal for cutting running cables



Tool with a large 42 mm jaw opening, for easier introduction/removal of large size compression terminations and joints



Blades manufactured from high strength special Steel, heat treated to ensure a long service life



Max cutting diameter



Max hole punching diameter



The head can rotate to enable the operator to work in the most comfortable position



Can be operated with one hand



Provided with a maximum pressure valve that allows to check the correct execution of the compressions or the limit switch control of the blades



Manual pressure release button



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced tool for greater control



Dual-compound plastic handles.
Greater safety and comfort in handling, thanks to the rubber inserts



Durable moulded body offering high resistance to wear and damage in all operating conditions



CE marking



UKCA marking

SYMBOL DESCRIPTION

hydraulic tools and heads

HEXAGONAL — Hexagonal crimp

RADIAL — Radial crimp

INDENT — Indent crimp

DEEP INDENT — Deep indent crimp

OVAL — Oval crimp

TRAPEZIUM — Trapezium crimp

CIRCULAR — Circular crimp

700 bar — Max operating pressure

ISOLATED — Contains isolated oil

60kV — Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV



HT45-E

HYDRAULIC CRIMPING TOOL

general features

50kN | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | ONE HAND | HEAD OPENING | BALANCED | DURABLE | HEXAGONAL | OVAL | INDENT

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■								
"C" sleeve Connectors			■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

TECHNICAL FEATURES

Crimping force kN	*50*
Dimensions mm	
Length	*346*
Width	*130*
Weight kg	*2,0*

STORAGE

Type	*VAL-M/L3**
Dimensions mm L x W x H	*496 x 296 x 145*
Weight kg	*2,0*
Supplied with the tool	✓

** Suitable for storage of the tool and dies*





Lightweight and compact, this tool is ideal for the compression of connectors for general applications.
Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

STORAGE

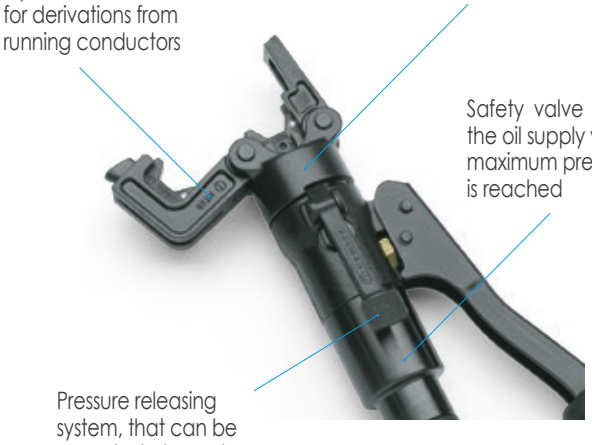
Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Supplied with the tool	✓

** Suitable for storage 5 sets of dies*





The operator can advance the dies using only one hand, leaving the other hand free to position the connector.



HYDRAULIC CRIMPING TOOL

HT51

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■						
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



STORAGE

Type	*VAL-M/L3**
Dimensions mm L x W x H	*496 x 296 x 145*
Weight kg	*2,0*
Supplied with the tool	✓

** Suitable for storage of the tool and dies*



TECHNICAL FEATURES

Crimping force kN	*50*
Dimensions mm	
Length	*380*
Width	*130*
Weight kg	*2,7*

New design two speed hydraulic tool, lightweight and compact, this tool is ideal for working in confined spaces.
Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees.



STORAGE

Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Supplied with the tool	✓

** Suitable for storage 5 sets of dies*



The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

HT51 COMPRESSION KIT

KIT-HT51-1
KIT-HT51-2
KIT-HT51-MK

general features

KIT-HT51-1

Kit includes:

- HT51 Hydraulic tool
- VAL-M/L3 plastic carrying case
- VAL-75 plastic case for dies
- 8 die sets:
  - ME5-50
  - ME7-50
  - ME10-50
  - ME14-50
  - ME19-50
  - ME24-50
  - ME30-50
  - ME37-50
  - ME48-50

Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² A-M family

KIT-HT51-2

Kit includes:

- HT51 Hydraulic tool
- VAL-M/L3 plastic carrying case
- VAL-75 plastic case for dies
- 6 die sets:

Nest	Indentor
MA5-50	PA5-50
MA7-50	PA10-50
MA10-50	
MA14-50	PA19-50
MA19-50	
MA24-50	PA24-50

Indent crimp for low voltage general purpose terminals and through connectors from 25 to 120 mm²

KIT-HT51-MK

Kit includes:

- HT51 Hydraulic tool
- VAL-M/L3 plastic carrying case
- VAL-75 plastic case for dies
- 9 die sets:
  - MK8-50
  - MK10-50
  - MK12-50
  - MK14-50
  - MK16-50
  - MK18-50
  - MK20-50
  - MK22-50
  - MK25-50

Hexagonal crimp for low voltage terminals and through connectors from 16 to 185 mm² DIN 46235 family



CEMBRE

RH50

HYDRAULIC PRESSHEAD

50kN | 700 bar | HEAD OPENING | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | CE | UK CA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
RH50 is suitable for installing the same range of connectors as HT51.

TECHNICAL FEATURES

Crimping force kN	*50*
Max operating pressure bar	*700*
Dimensions mm	
Length	*195*
Width	*75*
Weight kg	*1,6*

STORAGE

Type	*VAL-M2T**
Dimensions mm L x W x H	*390 x 310 x 102*
Weight kg	*1,35*
Supplied with the tool	✓

** Suitable for storage of the head and 20 sets of dies*



STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Purchase separately	✓



RHM50

HYDRAULIC PRESSHEAD

50kN | 700 bar | DURABLE | HEXAGONAL | OVAL | INDENT | RADIAL | CE | UK CA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
Insulated terminals				■	■	■	■	■	■	■	■									
End sleeves					■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



Hydraulic presshead complete with quick automatic coupler for connection to hydraulic pump with working pressure of 700 bar max, (see page 346-352).
RHM50 is suitable for installing the same range of connectors as RH50. Particularly suitable for high volume bench crimping.

TECHNICAL FEATURES

Crimping force kN	*50*
Max operating pressure bar	*700*
Dimensions mm	
Length	*210*
Width	*70*
Weight kg	*1,6*

STORAGE

Type	*VAL-M2T**
Dimensions mm L x W x H	*390 x 310 x 102*
Weight kg	*1,35*
Supplied with the tool	✓

** Suitable for storage of the head and 20 sets of dies*



STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Purchase separately	✓



HYDRAULIC CRIMPING TOOL

HT60C

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

STORAGE

Type	*CVB-010*
Dimensions mm L x W	*545 x 160*
Weight kg	*0,15*
Supplied with the tool	✓



TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*382*
Width	*153*
Weight kg	*3,0*



STORAGE

Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Purchase separately	✓

**Suitable for storage 5 sets of dies*



New design two speed hydraulic tool, lightweight and compact, this tool is ideal for working in confined spaces.
Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

HYDRAULIC PRESSHEAD

RH60C

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

TECHNICAL FEATURES

Crimping force kN	*60*
Max operating pressure bar	*700*
Dimensions mm	
Length	*216*
Width	*91*
Weight kg	*1,8*

STORAGE

Type	*VAL-P26**
Dimensions mm L x W x H	*445 x 290 x 115*
Weight kg	*1,2*
Supplied with the tool	✓

Suitable for storage of the head and 14 sets of dies





Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
RH60C is suitable for installing the same range of connectors as HT60C.

CEMBRE

HT81-UD

HYDRAULIC CRIMPING TOOL

80kN | 2 SPEED | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE | HEXAGONAL | OVAL | INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	100	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors			■	■	■	■	■	■	■													
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



This lightweight and self contained tool, features a patented closure and release mechanism for the die locking pin. A wide range of connectors can be crimped with a small number of die sets due to their unique, double groove styling. Dies for cutting Copper, Aluminum, Aldrey and Aluminum-steel, are also available (see table below).
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.

The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

TECHNICAL FEATURES

Crimping force kN	*80*
Dimensions mm	
Length	*485*
Width	*141*
Weight kg	*3,4*

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

** Suitable for storage of the tool and VAL-75*



STORAGE

Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Purchase separately	✓

**Suitable for storing five sets of dies*



RHU81-D

HYDRAULIC PRESSHEAD

80kN | 700 bar | DURABLE | HEXAGONAL | OVAL | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	100	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors			■	■	■	■	■	■	■													
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
This lightweight and self contained head, features a patented closure and release mechanism for the die locking pin.
The head is easy to use and is ideally suited for crimping in confined spaces. RHU81 is suitable for installing the same range of connectors as HT 81-U.



TECHNICAL FEATURES

Crimping force kN	*80*
Max operating pressure bar	*700*
Dimensions mm	
Length	*235*
Width	*91*
Weight kg	*1,9*

STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Supplied with the tool	✓

HT 81-U and RHU 81 ACCESSORIES FOR CUTTING CONDUCTORS

Die Type	Cutting Capacity	Conductor Type
	Ø 16 mm	Cu, Alu, Aldrey and Alu-Steel
MB2-80U	This die is suitable to cut steel conductors (R ≤ 160 daN/mm²) having the most common strandings, i.e.: 19 x 1,2 = Ø est. 6,0 mm 7 x 3,0 = Ø est. 9,0 mm 19 x 2,1 = Ø est. 10,5 mm 19 x 2,3 = Ø est. 11,5 mm	
MB3-80U	Suitable to cut aluminium strands of 150 mm² aluminium-steel conductors, without damage to the steel core.	

HYDRAULIC CRIMPING TOOL

HT120

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

*Suitable for storage of the tool and dies

TECHNICAL FEATURES

Crimping force kN	*120*
Dimensions mm	
Length	*490*
Width	*156*
Jaw opening	*25*
Weight kg	*5,7*





This lightweight and self contained tool will accept the semi-circular slotted dies, common to most 130 kN tools.
It is particularly suitable for installing crimp type electrical connectors for overhead line applications.
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.



HT 120-KV
version also available for
Power Supply Companies



Die release system, protected from accidental operation



Pressure release trigger, which can be operated at any stage of the compression.



CEMBRE

HT131-C

HYDRAULIC CRIMPING TOOL

130kN | 2 SPEED | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25÷1,5	1,5÷2,5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



This new model, self contained, robust and sturdy, will accept all semi-circular slotted dies, common to most 130 kN tools.
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Length	*473*
Width	*144*
Jaw opening	*25*
Weight kg	*5,5*

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

*Suitable for storage of the tool and dies



HT131-C COMPRESSION KIT

general features

KIT-HT131-C-1
KIT-HT131-C-2
KIT-HT131-C-MK





KIT-HT131-C-1

Kit includes:

HT131-C Hydraulic tool	
VAL-M/X2 plastic carrying case	
7 die sets:	
ME10-C	Hexagonal crimp for low voltage terminals and through connectors from 50 to 240 mm² A-M family
ME14-C	
ME19-C	
ME24-C	
ME30-C	
ME37-C	
ME48-C	

KIT-131-C-MK

Kit includes:

HT131-C Hydraulic tool	
VAL-M/X2 plastic carrying case	
11 die sets:	
MK6-C	Hexagonal crimp for low voltage terminals and through connectors from 10 to 240 mm² DIN 46235 family
MK8-C	
MK10-C	
MK12-C	
MK14-C	
MK16-C	
MK18-C	
MK20-C	
MK22-C	
MK25-C	
MK28-C	

KIT-HT131-C-2

Kit includes:

HT131-C Hydraulic tool		
VAL-M/X2 plastic carrying case		
11 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 10 to 240 mm²
MA2-C	PA10-C	
MA3-C		
MA5-C		
MA7-C		
MA10-C		
MA14-C	PA24-C	
MA19-C		
MA24-C		
MA30-C	PA48-C	
MA37-C		
MA48-C		

CEMBRE

RHC131

HYDRAULIC PRESSHEAD

130kN | 700 bar | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
This new design with improved mechanical features, is suitable for installing the same range of connectors as HT 131-C.

TECHNICAL FEATURES

Crimping force kN	130
Max operating pressure bar	700
Dimensions mm	
Length	232
Width	124
Jaw opening	25
Weight kg	3,8

STORAGE

Type	VAL-P26*
Dimensions mm L x W x H	445 x 290 x 115
Weight kg	1,2
Purchase separately	✓

*Suitable for storage of the head and 14 sets of dies



RHM132

HYDRAULIC PRESSHEAD

130kN | 700 bar | DURABLE | HEXAGONAL | OVAL | INDENT | RADIAL | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Particularly suitable for high volume bench crimping.



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).

TECHNICAL FEATURES

Crimping force kN	130
Max operating pressure bar	700
Dimensions mm	
Length	216
Width	80
Weight kg	3,1

STORAGE

Type	VAL-P26*
Dimensions mm L x W x H	445 x 290 x 115
Weight kg	1,2
Purchase separately	✓

*Suitable for storage of the head and 14 sets of dies



HYDRAULIC CRIMPING TOOL

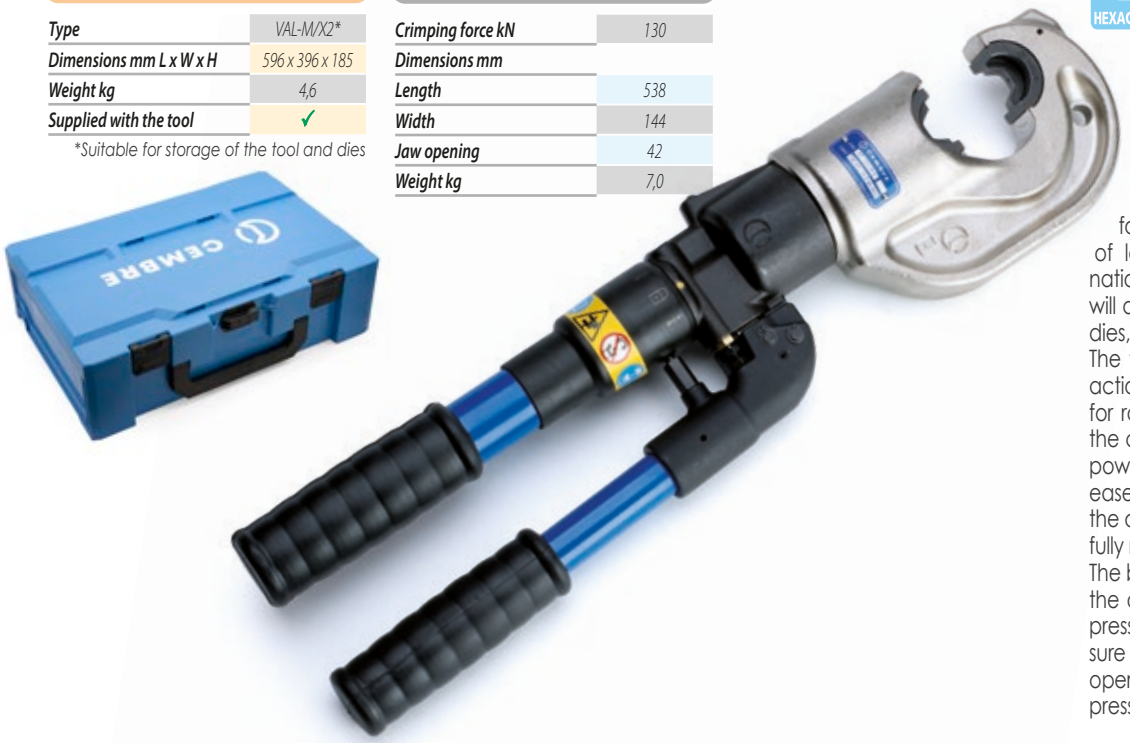
HT131LN-C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



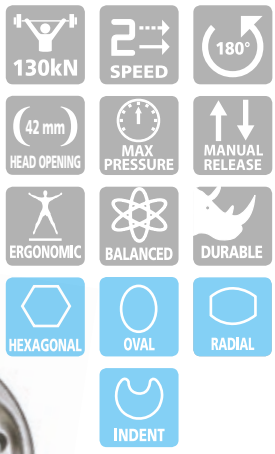
STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

**Suitable for storage of the tool and dies*

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Length	*538*
Width	*144*
Jaw opening	*42*
Weight kg	*7,0*



Hydraulic "C" head tool with a large 42 mm jaw opening, for easier introduction/removal of large size compression terminations and joints. The HT131LN-C will accept all semi-circular slotted dies, common to most 130 kN tools. The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

HYDRAULIC PRESSHEAD

RHC131LN

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

STORAGE

Type	*VAL-P26**
Dimensions mm L x W x H	*445 x 290 x 115*
Weight kg	*1,2*
Purchase separately	✓

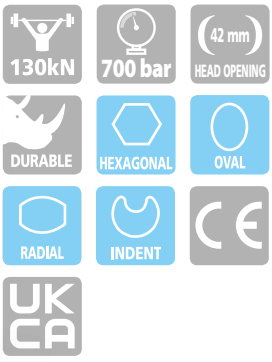
**Suitable for storage of the head and 14 sets of dies*

TECHNICAL FEATURES

Crimping force kN	*130*
Max operating pressure bar	*700*
Dimensions mm	
Length	*298*
Width	*122*
Jaw opening	*42*
Weight kg	*5,4*







Hydraulic head featuring a large 42 mm jaw opening; complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
Is suitable for installing the same range of connectors as HT 131LN-C.

CEMBRE

HT131-UC

HYDRAULIC CRIMPING TOOL

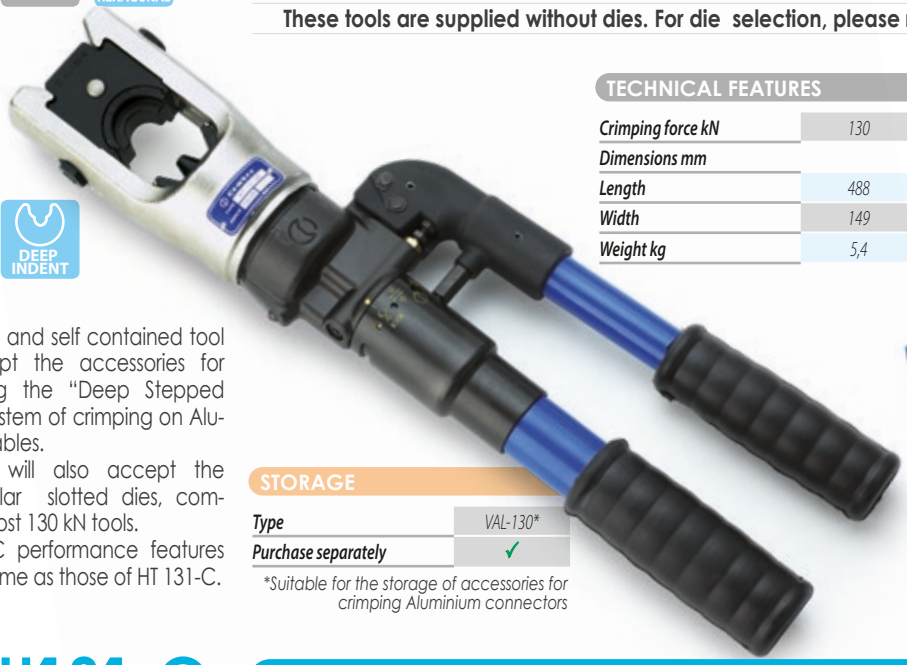
130kN · 2 SPEED · 180° · MAX PRESSURE · MANUAL RELEASE · ERGONOMIC · BALANCED · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT · DEEP INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



This robust and self contained tool will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.
This tool will also accept the semi-circular slotted dies, common to most 130 kN tools.
HT 131-UC performance features are the same as those of HT 131-C.

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Length	*488*
Width	*149*
Weight kg	*5,4*

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

**Suitable for storage of the tool and dies*



STORAGE

Type	*VAL-130**
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*

RHU131-C

HYDRAULIC PRESSHEAD

130kN · 700 bar · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT · DEEP INDENT · CE · UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
RHU131-C is suitable for installing the same range of connectors as HT 131-UC.

TECHNICAL FEATURES

Crimping force kN	*130*
Max operating pressure bar	*700*
Dimensions mm	
Length	*245*
Width	*89*
Weight kg	*3,7*

STORAGE

Type	*VAL-P26**
Dimensions mm L x W x H	*445 x 290 x 115*
Weight kg	*1,2*
Purchase separately	✓

**Suitable for storage of the head and 14 sets of dies*

STORAGE

Type	*VAL-130**
Dimensions mm L x W x H	*360 x 280 x 48*
Weight kg	*3,0*
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*

STORAGE

Type	*VAL-130-U**
Dimensions mm L x W x H	*450 x 305 x 80*
Weight kg	*5,0*
Purchase separately	✓

**Suitable for storage of the head, semi-circular slotted dies and dies for crimping Aluminium connectors*

VAL-130-U



VAL-130

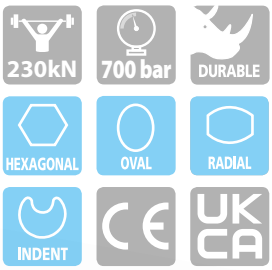


VAL-P26

HYDRAULIC PRESSHEAD

ECW-H3D

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■		
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■		■						
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

STORAGE

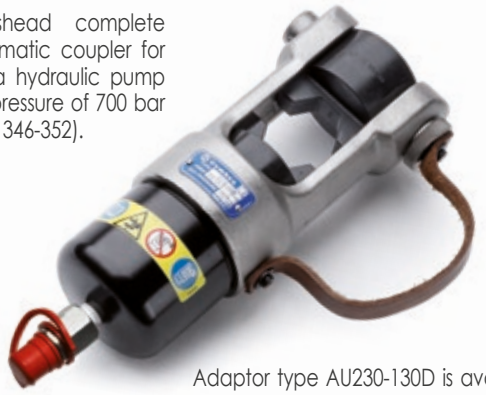
Type	*VAL-ECW-H3D**
Dimensions mm L x W x H	*345 x 205 x 90*
Weight kg	*4,2*
Purchase separately	✓

** Suitable for storage of the head and 10 sets of dies*

TECHNICAL FEATURES

Crimping force kN	*230*
Max operating pressure bar	*700*
Dimensions mm	
Length	*290*
Width	*120*
Weight kg	*5,5*

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).



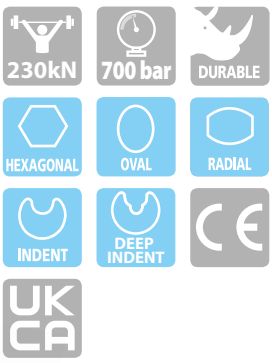


Adaptor type AU230-130D is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools. Also available is a series of dies for the compression of DIN electrical connectors.

HYDRAULIC PRESSHEAD

RHU231

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
Cu lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

STORAGE

Type	*VAL-231**
Dimensions mm L x W x H	*470 x 273 x 96*
Weight kg	*7,2*
Supplied with the tool	✓
Purchase separately	-

** Suitable for storage of the head and dies for Aluminium compression*

TECHNICAL FEATURES

Crimping force kN	*230*
Max operating pressure bar	*700*
Dimensions mm	
Length	*320*
Width	*110*
Weight kg	*6,4*





Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
For crimping up to 500 sqmm Aluminium.
Dies are available also for crimping Copper connectors.

CEMBRE

RHU230-630

HYDRAULIC PRESSHEAD

230kN | 700 bar | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | DEEP INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■		
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352). It allows for crimping up to 630 sqmm Aluminium (according to HN 68 S90). Adapters AU 230-130-C/N, and AU 230-PS/E, are available as an optional extra enabling the head to utilise the semicircular slotted dies which are common to most 130 kN tools.

TECHNICAL FEATURES

Crimping force kN	230
Max operating pressure bar	700
Dimensions mm	
Length	365
Width	193
Weight kg	9,0

STORAGE

Type	VAL-230-630*
Dimensions mm L x W x H	405 x 230 x 145
Weight kg	3,5
Supplied with the tool	✓

*Suitable for storage of the head

STORAGE

Type	VALMAT-230-630*
Dimensions mm L x W x H	290 x 260 x 70
Weight kg	3,1
Purchase separately	✓

*Suitable for storage of the accessories



VALMAT-230-630

VAL-230-630

RHU450

HYDRAULIC PRESSHEAD

450kN | 700 bar | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - Hexagonal crimp according to DIN 48083 max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	680	800	1000	1200
Cu				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Al				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Al/St				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			

These tools are supplied without dies.



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352). Adaptor type AU 450-130 D is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools.

TECHNICAL FEATURES

Crimping force kN	450
Max operating pressure bar	700
Dimensions mm	
Length	260
Width	120
Weight kg	10,3

STORAGE

Type	VAL-450*
Dimensions mm L x W x H	285 x 212 x 124
Weight kg	2,8
Supplied with the tool	✓

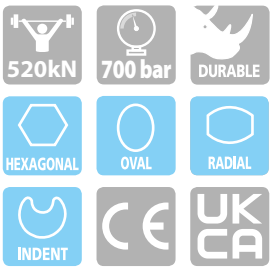
* Suitable for storage of the head



HYDRAULIC PRESSHEAD

RHU520

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000	1200
Lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■
H.V. overhead lines				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■			

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

STORAGE

Type	*VAL-520**
Dimensions mm L x W x H	*384 x 231 x 145*
Weight kg	*3,2*
Purchase separately	✓

**Suitable for storage of the head*

TECHNICAL FEATURES

Crimping force kN	*520*
Max operating pressure bar	*700*
Dimensions mm	
Length	*306*
Width	*200*
Weight kg	*18,0*

STORAGE

Type	*VALMAT-520**
Dimensions mm L x W x H	*500 x 310 x 68*
Weight kg	*5,1*
Purchase separately	✓

**Suitable for storage of 10 sets of dies*



VAL-520



VALMAT-520



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
Adaptor type AU520-130C is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools.

CEMBRE

RHU600

HYDRAULIC PRESSHEAD

600kN | 700 bar | DURABLE | HEXAGONAL | CIRCULAR | CE | UK CA

general features

MAIN APPLICATIONS

- "U" Alcoa series die and "L" Burndy series die, etc.
- Aluminium and Copper max size 2156 MCM

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).





TECHNICAL FEATURES

Crimping force kN	*600*
Max operating pressure bar	*700*
Dimensions with support mm	
Length	*447*
Width	*241*
Weight with support	*22,4*

STORAGE

Type	*VAL-600**
Dimensions mm L x W x H	*480 x 235 x 260*
Weight kg	*8,6*
Supplied with the tool	✓

**Suitable for storage of the head*



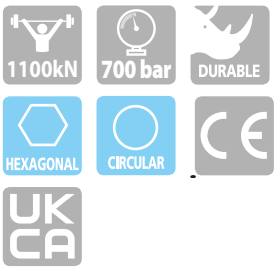
VAL-600

HYDRAULIC PRESSHEAD

RHU1000

general features

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



STORAGE

Type	*VAL-1000**
Dimensions mm L x W x H	*334 x 244 x 435*
Weight kg	*12*
Supplied with the tool	✓

**Suitable for storage of the head*

TECHNICAL FEATURES

Crimping force kN	*1.100*
Max operating pressure bar	*700*
Dimensions mm	
Length	*414*
Width	*278*
Weight kg	*50,6*

Operable from single or double acting hydraulic power source



VAL-1000

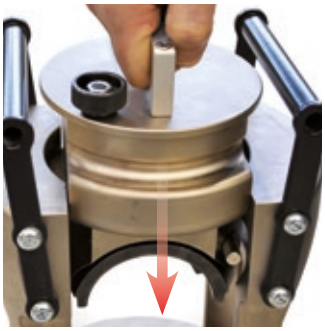




Lifting eye; screwed into the base of the cylinder, allows easy transportation of the head in aerial operation.

RHU 1000 is a 1.100 kN hydraulic presshead for full tension, transmission and substation connections, complete with quick automatic coupler for connection to hydraulic pumps with a working pressure of 700 bar max, (see page 346-352).
The standard version must be operated by a single acting pump; possibility to convert from single to double acting by substitution of the breather valve with a female quick coupling.
RHU1000 will accept all semi-circular slotted dies common to most 100 ton heads as the Alcoa ones.
The die cap is removable for an easy connector positioning; the upper part of the cap automatically rotates during the die changing process to present the correct positioning of the die. Lifting eye included.

Insertion of the upper die:



After substitution of the dies, insert the die cap into the head.



Pull the pin.



The upper part of the cap automatically rotates...



...to the correct position.

CEMBRE

HT-TC051

HYDRAULIC CUTTING TOOL

industrial application

Ø 50mm | 2 SPEED | 90° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 50 mm

TECHNICAL FEATURES	
Max cutting Ø mm	50
Dimensions mm	
Length	497
Width	129
Weight kg	4,38

STORAGE	
Type	CVB-010
Dimensions mm L x W	545 x 160
Weight kg	0,15
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 50 mm.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.The head can be easily opened to allow the cutting of running cables.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position.
HT-TC051 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TC050

HYDRAULIC CUTTING HEAD

industrial application

Ø 50mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 50 mm

TECHNICAL FEATURES	
Max cutting Ø mm	50
Max operating pressure bar	700
Dimensions mm	
Length	325
Width	112
Weight kg	3,2

STORAGE	
Type	CVB-011
Dimensions mm L x W	360 x 137
Weight kg	0,13
Supplied with the tool	✓





Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352)
TC050 features the same cutting capability as HT-TC051.

HYDRAULIC CUTTING TOOL

HT-TC065

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm

STORAGE	
Type	*CVB-010*
Dimensions mm L x W	*545 x 160*
Weight kg	*0,15*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*65*
Dimensions mm	
Length	*523*
Width	*129*
Weight kg	*5*



Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 65 mm. The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can be easily opened to allow the cutting of running cables.
The head can rotate through 320 degrees, to enable the operator to work in the most comfortable position.
HT-TC065 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

HYDRAULIC CUTTING HEAD

TC065-SC

industrial application

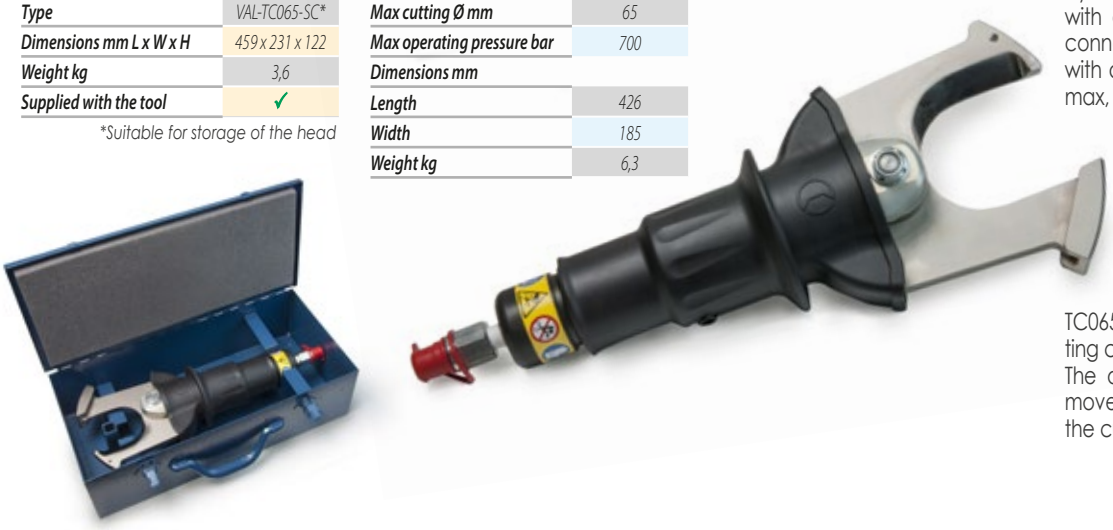
MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm

STORAGE	
Type	*VAL-TC065-SC**
Dimensions mm L x W x H	*459 x 231 x 122*
Weight kg	*3,6*
Supplied with the tool	✓

**Suitable for storage of the head*

TECHNICAL FEATURES	
Max cutting Ø mm	*65*
Max operating pressure bar	*700*
Dimensions mm	
Length	*426*
Width	*185*
Weight kg	*6,3*



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352)

TC065-SC features the same cutting capability as HT-TC065.
The open head and the "scissor" movement of the blades facilitate the cutting of running cables.

CEMBRE

HT-TC0851

HYDRAULIC CUTTING TOOL

industrial application

Ø 85mm | 2 SPEED | 90° | HEAD OPENING | SPECIAL | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 85 mm

TECHNICAL FEATURES	
Max cutting Ø mm	*85*
Dimensions mm	
Length	*652,5*
Width	*175*
Weight kg	*6,6*

STORAGE	
Type	*CVB-029/1*
Dimensions mm L x W x H	*780 x 200*
Weight kg	*0,426*
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 85 mm.
New model, self contained, robust and sturdy.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The head can easily be opened to allow the cutting of running cables, and can rotate through 180 degrees, to enable the operator to work in the most comfortable position.
HT-TC0851 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TC085

HYDRAULIC CUTTING HEAD

industrial application

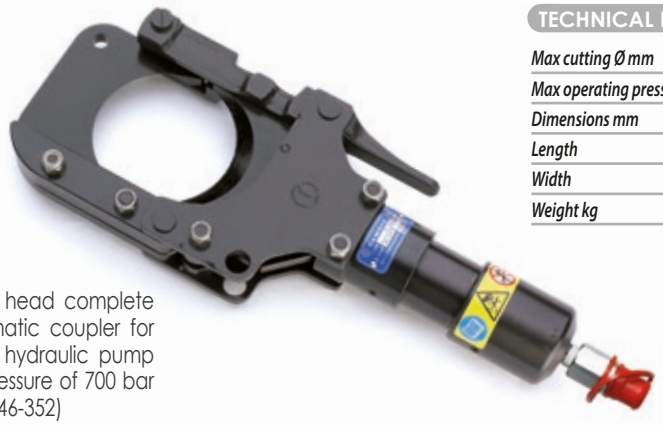
Ø 85mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 85 mm

TECHNICAL FEATURES	
Max cutting Ø mm	*85*
Max operating pressure bar	*700*
Dimensions mm	
Length	*409*
Width	*135*
Weight kg	*4,9*

STORAGE	
Type	*VAL-TC085*
Dimensions mm L x W x H	*465 x 155 x 65*
Weight kg	*2,4*
Supplied with the tool	✓





Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352)
TC085 features the same cutting capability as HT-TC0851.

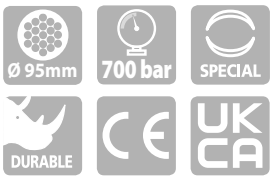
HYDRAULIC CUTTING HEAD

TC096

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper and Aluminium cable having Ø max 95 mm



STORAGE	
Type	VAL-096
Dimensions mm L x W x H	450 x 265 x 145
Weight kg	6,8
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	95
Max operating pressure bar	700
Dimensions mm	
Length	397
Width	249
Weight kg	7,9





Hydraulic cutting head specifically designed to cut Copper and Aluminium cable having a max overall diameter of 95 mm.
The head is complete with a quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max,
(see page 346-352).



HYDRAULIC CUTTING HEAD

TC120

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 120 mm



STORAGE	
Type	VAL-TC120
Dimensions mm L x W x H	590 x 209 x 84
Weight kg	4,9
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	120
Max operating pressure bar	700
Dimensions mm	
Length	536
Width	175
Weight kg	9,5





Hydraulic cutting head specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 120 mm. The head can easily be opened to cut running cables, and the handle allows the most comfortable positioning of the head onto the cable to be cut.
The head is complete with a quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).

TC 120 cutting capacity - a few examples:

	Section	Conductor Type
Cable Type	3x150 mm²	Steel armoured Ø80 mm
	1000 mm²	Cu - EPR rubber insulated; Ø85 mm
	1000 mm²	Cu - EPR rubber insulated + lead sheath; Ø92 mm
	1000 mm²	Cu - EPR rubber insulated + lead sheath + PE sheath; Ø100 mm
	240 mm²	EPR rubber insulated





CEMBRE

HT-TC026

HYDRAULIC CUTTING TOOL

overhead line application

Ø 25mm | 2 SPEED | 180° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm



Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.

HT-TC026 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TECHNICAL FEATURES

Max cutting Ø mm	*25*
Dimensions mm	
Length	*382*
Width	*129*
Weight kg	*3,2*

STORAGE

Type	*CVB-001*
Dimensions mm L x W	*430 x 155*
Weight kg	*0,15*
Supplied with the tool	✓



CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) HT-TC026 HT-TC026Y TC 025 B-TC250
ROPES & CONDUCTORS	COPPER	≤ 41	25
	ALUMINIUM	≤ 20	25
	ALMELEC	≤ 34	25
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	25 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80
RODS	STEEL	≤ 60	13
		≤ 42	16
	COPPER	≤ 30	20
		≤ 25	23
	ALUMINIUM	≤ 16	25

TC025

HYDRAULIC CUTTING HEAD

overhead line application

Ø 25mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352)
TC025 has the same cutting capability as HT-TC026.

TECHNICAL FEATURES

Max cutting Ø mm	*25*
Max operating pressure bar	*700*
Dimensions mm	
Length	*213*
Width	*82*
Weight kg	*2,0*

STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Supplied with the tool	✓



HYDRAULIC CUTTING TOOL

HT-TC026Y

overhead line application



MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminum, Aluminum-Steel cables, stay wire and Steel ropes having Ø max 25 mm and Steel earthing rod up to 16 mm.

STORAGE

Type	*CVB-001*
Dimensions mm L x W	*430 x 155*
Weight kg	*0,15*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø mm	*25*
Dimensions mm	
Length	*394,5*
Width	*129*
Weight kg	*3,35*



Ideal for earthing rod and stay wire

Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminum, Aluminum-Steel cables, stay wire and Steel ropes having a max overall diameter of 25 mm and Steel earthing rod up to 16 mm. The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.
HT-TC026Y features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

HT-TCO26Y cutting capacity - a few examples:

Ø		EARTHING RODS AND STAY WIRES
mm	in.	
14,2	/	STEEL EARTHING ROD, COPPER PLATED; Tensile strength = 79 daN/mm²
12,7	1/2"	STEEL EARTHING ROD, COPPER PLATED; Tensile strength = 69 daN/mm²
15,6	/	STEEL EARTHING ROD; Tensile strength = 69 daN/mm²
15,9	5/8"	STEEL EARTHING ROD, COPPER PLATED (CON ED - ILLINOIS); Tensile strength = 57 daN/mm²
15,9	5/8»	STEEL EARTHING ROD, COPPER PLATED (CON ED - STATEN ISLAND); Tensile strength = 78 daN/mm²
19	3/4"	STEEL EARTHING ROD, COPPER PLATED; Tensile strength = 74 daN/mm²
9,15 (3,05x7)	/	STAY WIRE
10,8 (3,6x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)
11,1 (3,7x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)
12,3 (4,1x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)
12,6 (4,2x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)

HT-TC041N

HYDRAULIC CUTTING TOOL

overhead line application

Ø 45mm | 2 SPEED | 180° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm

TECHNICAL FEATURES

Max cutting Ø mm	*45*
Dimensions mm	
Length	*550*
Width	*144*
Weight kg	*5,8*

STORAGE

Type	*CVB-010*
Dimensions mm L x W x H	*545 x 160*
Weight kg	*0,286*
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.
New model, even more self contained, robust and sturdy.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

HT-TC041N features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) HT-TC041N TC04N B-TC450
ROPES & CONDUCTORS	COPPER	≤ 41	45
	ALUMINIUM	≤ 20	45
	ALMELEC	≤ 34	45
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	45 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20
RODS	STEEL	≤ 60	18
		≤ 42	20
	COPPER	≤ 30	30
		≤ 25	32
	ALUMINIUM	≤ 16	45

TC04N

HYDRAULIC CUTTING HEAD

overhead line application

Ø 45mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm



TECHNICAL FEATURES

Max cutting Ø mm	*45*
Max operating pressure bar	*700*
Dimensions mm	
Length	*311*
Width	*100*
Weight kg	*4,0*

STORAGE

Type	*VAL-04*
Dimensions mm L x W x H	*350 x 125 x 68*
Weight kg	*2,0*
Supplied with the tool	✓



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352)
TC04N has the same cutting capability as HT-TC041N.

HYDRAULIC CUTTING TOOL

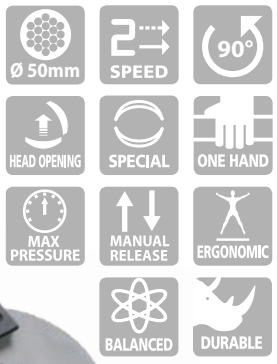
HT-TC051Y

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 50 mm

Not suitable for cutting stay wire, Steel rope or earthing rod



STORAGE	
Type	*CVB-010*
Dimensions mm L x W	*545 x 160*
Weight kg	*0,15*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*50*
Dimensions mm	
Length	*503*
Width	*129*
Weight kg	*4,7*



Hand operated hydraulic tool specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having a max overall diameter of 50 mm.
The HT-TC051Y is provided with a two stage hydraulic system, which advances the blades quickly to the cable. This proven system saves operator time and effort.

The HT-TC051Y is provided with an automatic safety valve to bypass oil when reaching max pressure.
This means safety to the operator and protection to the blades.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The shape of the blades provides a "clean" cut. The head can be opened to allow cutting of running cables and ropes.
The head rotates 90 degrees allowing the operator to perform the cut in the most comfortable position.
The tool is supplied complete with canvas bag 010 for protection and storage when not in use.

HYDRAULIC CUTTING HEAD

TC050Y

overhead line application

MAIN APPLICATIONS

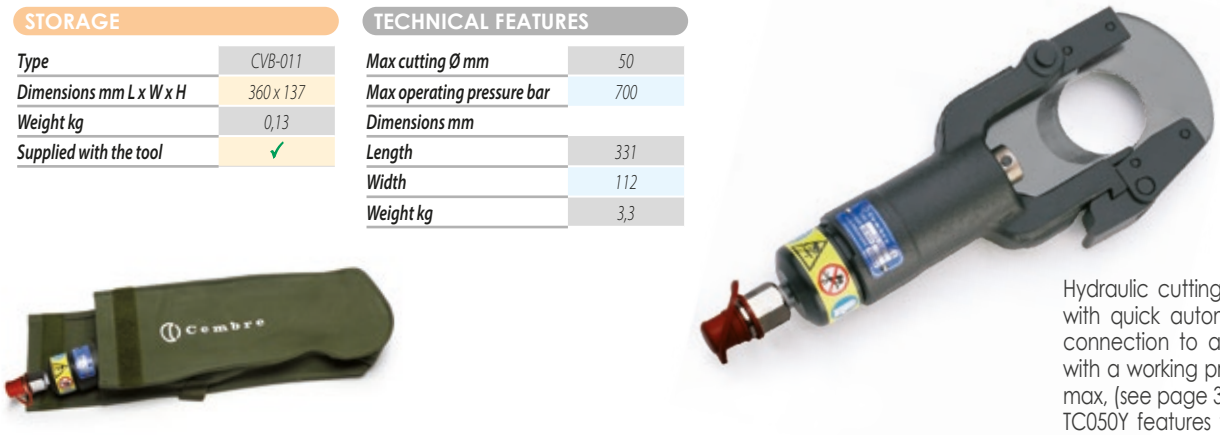
specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 50 mm

Not suitable for cutting stay wire, Steel rope or earthing rod



STORAGE	
Type	*CVB-011*
Dimensions mm L x W x H	*360 x 137*
Weight kg	*0,13*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*50*
Max operating pressure bar	*700*
Dimensions mm	
Length	*331*
Width	*112*
Weight kg	*3,3*



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352).
TC050Y features the same cutting capability as HT-TC051Y.

HT-TC055

HYDRAULIC CUTTING TOOL

overhead line application

Ø 55mm | 2 SPEED | 330° | HEAD OPENING | SPECIAL | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 55 mm

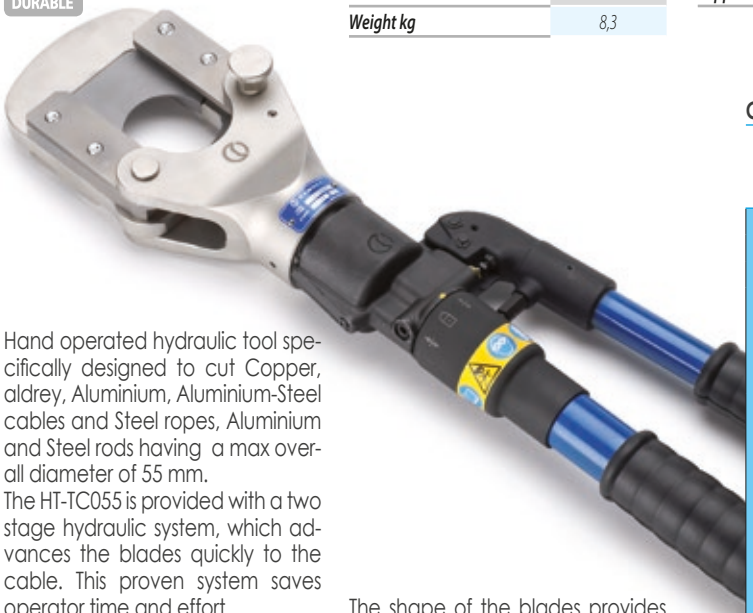
TECHNICAL FEATURES

Max cutting Ø mm	*55*
Dimensions mm	
Length	*595*
Width	*144*
Weight kg	*8,3*

STORAGE

Type	*CVB-029/1*
Dimensions mm L x W x H	*780 x 200*
Weight kg	*0,426*
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 55 mm.
The HT-TC055 is provided with a two stage hydraulic system, which advances the blades quickly to the cable. This proven system saves operator time and effort.
The HT-TC055 is provided with an automatic safety valve to bypass oil when reaching max pressure.
This means safety to the operator and protection to the blades.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The shape of the blades provides a "clean" cut. The head can be opened to allow cutting of running cables and ropes. The head rotates 330 degrees allowing the operator to perform the cut in the most comfortable position.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) HT-TC055 TC 055 B-TC550
ROPES & CONDUCTORS	COPPER	≤ 41	55
	ALUMINIUM	≤ 20	55
	ALMELEC	≤ 34	55
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	22
	ACSR	≤ 180	50 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 26 x 4,44 + 7 x 3,45 : Ø est. = 28,14 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20 83 x 4,60 + 16 x 2,80 : Ø est. = 50,00
	GUY WIRE (GW15-9/16-188)	Extra high strenght grade	7 x 4,77 : Ø est. =14,30 mm
RODS	STEEL	≤ 60	20
		≤ 42	22
	COPPER	≤ 30	34
		≤ 25	38,5
	ALUMINIUM	≤ 16	50

TC055

HYDRAULIC CUTTING HEAD

overhead line application

Ø 55mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 55 mm



TECHNICAL FEATURES

Max cutting Ø mm	*55*
Max operating pressure bar	*700*
Dimensions mm	
Length	*357*
Width	*134*
Weight kg	*6,6*

STORAGE

Type	*VAL-TC055*
Dimensions mm L x W x H	*384 x 231 x 145*
Weight kg	*3,7*
Supplied with the tool	✓



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 346-352)
TC055 has the same cutting capability as HT-TC055.

PIERCING HEADS

general features

RHT160
RHT160-60N

Ø 21mm | 700 bar | DURABLE | CE | UKCA

RHT160

Max piercing Ø mm	21
Max hole distance from bar edge (mm)	30
Max operating pressure bar	700
Dimensions mm	
Length	240
Width	153
Weight kg	6,5

RHT160-60N

Max piercing Ø mm	21
Max hole distance from bar edge (mm)	60
Max operating pressure bar	700
Dimensions mm	
Length	240
Width	181
Weight kg	9,2



STORAGE

Type	VAL-160*
Dimensions mm L x W x H	283 x 180 x 100
Weight kg	2,3
Supplied with the tool	✓

*Suitable for storage of the head



Hydraulic head complete with automatic quick coupler, for piercing holes of various diameters in Copper, Aluminium and Steel bars with max. thickness of 10 mm.
This compact and handy tool is widely used for transformer room connections, control switch boards and power plants.
For operation the head must be joined to a hydraulic pump developing a pressure of 700 bar (see page 346-352).

Available accessories (to be ordered separately):

Piercing Ø mm	6,5	8,5	9	10,5	11	13	13,5	14	15	17	19	21
Type (Kit Punch+Die)	RT6.5	RT8.5	RT9	RT10.5	RT11	RT13	RT13.5	RT14	RT15	RT17	RT19	RT21

Max. thickness

Hole diameter (mm)	6,5	8,5	9	10,5	11	13	13,5	14	15	17	19	21
Max thickness strep in Copper	10	10	10	10	10	10	10	10	10	10	8	8
Max thickness strep in Steel	10	10	10	10	10	9	9	9	8	7	6	4
Punch die/set	RT6.5	RT8.5	RT9	RT10.5	RT11	RT13	RT13.5	RT14	RT15	RT17	RT19	RT21

CEMBRE

HT-FL75

PULLER-TYPE HOLE PUNCHING TOOLS

general features

Ø 140mm | SPEED | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness



Hand operated hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness. Compact, lightweight and easy to handle. The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
The tool is supplied complete with plastic case VAL P28 for protection and storage when not in use.
Supplied with Pullers TD-11, TD-19 and spiral bit Ø 11,5 mm.
For the punch-die selection chart see page 305.

TECHNICAL FEATURES

Max Punching Ø mm	*140*
Dimensions mm	
Length	*452*
Width	*138*
Weight kg	*3,67*

STORAGE

Type	*VAL-M/L3**
Dimensions mm L x W x H	*496 x 296 x 145*
Weight kg	*2,0*
Supplied with the tool	✓

**Adatta a contenere l'utensile ed i suoi accessori*











Universal joint allows punching head to pivot 180deg over a full 360deg rotation.

KIT-HT-FL75-1
KIT-HT-FL75-2
KIT-HT-FL75-3

HOLE PUNCHING KIT

general features

Ø 140mm | SPEED | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE



KIT-HT-FL75-1

Kit includes:

HT-FL75 Puller-type hole punching hydraulic tool
VAL-M/L3 plastic carrying case with accessories
Puller TD-11
Puller TD-19
spiral bit Ø 11,5 mm

4 KIT for round punch:	
KIT-RD18.8SS	Pg11
KIT-RD20.5SS	Pg13.5
KIT-RD22.6SS	Pg16
KIT-RD28.5SS	Pg21

KIT-HT-FL75-2

Kit includes:

HT-FL75 Puller-type hole punching hydraulic tool
VAL-M/L3 plastic carrying case with accessories
Puller TD-11
Puller TD-19
spiral bit Ø 11,5 mm

5 KIT for round punch:	
KIT-RD16.2SS	ISO16
KIT-RD20.5SS	Pg13.5 ISO20
KIT-RD25.4SS	ISO25
KIT-RD32.5SS	ISO32
KIT-RD40.5SS	ISO40

KIT-HT-FL75-3

Kit includes:

HT-FL75 Puller-type hole punching hydraulic tool
VAL-M/L3 plastic carrying case with accessories
Puller TD-11
Puller TD-19
spiral bit Ø 11,5 mm

6 KIT for round punch:	
KIT-RD15.5SS	Pg9
KIT-RD18.8SS	Pg11
KIT-RD20.5SS	Pg13.5 ISO20
KIT-RD22.6SS	Pg16
KIT-RD28.5SS	Pg21
KIT-RD30.5SS-19	G7/8"

PULLER-TYPE HOLE PUNCHING HEAD

RH-FL75

general features

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness



Ø 140mm | 700 bar | DURABLE

STORAGE

Type	*VAL-M/S1*
Dimensions mm L x W x H	*396 x 296 x 145*
Weight kg	*1,57*
Supplied with the tool	✓



TECHNICAL FEATURES

Max Punching Ø mm	*140*
Max operating pressure bar	*700*
Dimensions mm	
Length	*163*
Width	*106*
Weight kg	*1,9*

Hydraulic head, for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness.
Compact and lightweight, easy to handle in confined spaces due to a rotating 90deg quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max (see page 346-352).
Supplied with Pullers TD-11, TD-19 and spiral bit Ø 11,5 mm.
For the punch-die selection chart see table below.

HT-FL75 and RH-FL75 Punching accessories available

Round punch

Hole diameter Nominal Ø (mm)	Ø (inch)	Pg	ISO	GAS	Material max thickness (mm) Stainless Steel	Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch + Die)	Puller
15,5	.610	Pg9	-	-	2,5 mm (0.1 in.) Rm= 700 N/mm²	3,5 mm (0.14 in.) Rm= 510 N/mm²	11,5	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17,0	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	
22,6	.890	Pg16	-	-				RD22.6SS	
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27,0	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg 21	-	-			20,0	RD28.5SS-19	TD-19
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34,0	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-				RD47.2SS	
48,5	1.909	-	-	G1"1/2"				RD48.5SS	
50,5	1.988	-	ISO-50	-				RD50.5SS	
51,4	2.023	-	-	-				RD51.4SS	
52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60,0	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64,0	2.520	-	ISO-63	-				RD64SS	
65,0	2.559	-	-	-				RD65SS	
76,0	2.992	-	-	G2"1/2"		3		RD76SS	
76,5	3.011	-	-	-		3,5		RD76.5SS	
80,5	3.169	-	-	-		3		RD80.5SS	
89,0	3.503	-	-	G3"		3,5		RD89SS	
90,0	3.543	-	-	-	2	3		RD90SS	
100,0	3.937	-	-	-	2	3	29,0	RD100SS	TD-28.5*
102,0	4.015	-	-	-	2	3		RD102SS	
114,0	4.488	-	-	-	2	2,5		RD114SS	
120,0	4.724	-	-	-	1,5	2		RD120SS	
140,0	5.512	-	-	-	1,5	2		RD140SS	

** Puller included in the kit*

"D" punch



Hole diameter Nominal (mm)	(inch)	Material max thickness (mm) Stainless Steel	Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch+die + Puller)
(a)38,3 x (b)36,6	(a)1.507 x (b)1.442	2,5	3,5	18,5	RD 18D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				RD 24D

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 500 N/mm²

Square punch

Hole diameter Nominal (mm)	(inch)	Material max thickness (mm) Stainless Steel	Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch+die + Puller)	Application Cable Entry Frames Type
21,0 x 21,0	.827 x .827	2,5	3,5	12,0	RD21X21	-
43,0 X 43,0	1.693 x 1.693	1,5	2,0	26,5	RD43X43	9000.Q/9200.Q
46,0 x 46,0	1.811 x 1.811				RD46X46	-
68,0 x 68,0	2.677 x 2.677			28,5	RD68X68	-
92,0 x 92,0	3.622 x 3.622				RD92X92	-
126,0 x 126,0	4.960 x 4.960				RD126X126	-
138,0 x 138,0	5.433 x 5.433	1,0	1,5		RD138X138	-

Rectangular punch

Hole diameter Nominal (mm)	(inch)	Material max thickness (mm) Stainless Steel	Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch+die + Puller)	Application Cable Entry Frames Type
18,0 x 46,0	.709 x 1.811	2,0	2,0	16,5	RD18X46	-
22,0 x 30,0	.866 x 1.181				RD22X30	-
22,0 x 46,0	.866 x 1.811				RD22X46	-
24,0 x 43,0	.945 x 1.693				RD24X43	9000.R-2
24,0 x 65,0	.945 x 2.559				RD24x65	9000.R-3
24,0 x 86,0	.945 x 3.386				RD24X86	9000.R-4
24,0 x 112,0	.945 x 4.409				RD24X112	9000.R-5/9200.R5
29,0 x 71,0	1.141 x 2.795				RD29X71	-
35,0 x 65,0	1.377 x 2.559			26,5	RD35X65	-
35,0 x 86,0	1.377 x 3.385				RD35X86	-
35,0 x 112,0	1.377 x 4.409				RD35X112	-
36,0 x 46,0	1.417 x 1.811				RD36X46	-
36,0 x 65,0	1.417 x 2.559				RD36X65	9000.10
36,0 x 86,0	1.417 x 3.386				RD36X86	9000.16
36,0 x 112,0	1.417 x 4.409				RD36X112	9000.24/9200.24 9220.24
37,0 x 54,0	1.456 x 2.125	1,5			RD37X54	-
37,0 x 67,0	1.456 x 2.637				RD37X67	-
37,0 x 88,0	1.456 x 3.464				RD37X88	-
37,0 x 104,0	1.456 x 4.094				RD37X104	-
37,0 x 115,0	1.456 x 4.527				RD37X115	-
46,0 x 54,0	1.811 x 2.126				RD46X54	-
46,0 x 65,0	1.811 x 2.559				RD46X65	9000.10
46,0 x 72,0	1.811 x 2.835				RD46X72	-
46,0 x 86,0	1811 x 3.386				RD46X86	9000.16
46,0 x 92,0	1.811 x 3.622				RD46X92	-
46,0 x 107,0	1.811 x 4.212				RD46X107	-
46,0 x 112,0	1.811 x 4.409				RD46X112	9000.24/9200.24
50,0 x 98,0	1.968 x 3.858				RD50X98	-
67,0 x 126,0	2.637 x 4.960			28,5	RD67X126	-
72,0 x 136,0	2.834 x 5.354				RD72X136	-

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 500 N/mm²

Use of non-CEMBRE punching accessories

Type	Punch & Die	Pilot hole Ø mm
TRD-9.4C (*)	GREENLEE 3/8" - 24 UNF	Ø 10.0
TRD-M11C (*)	BM, COSMEC (M11x1.5), IMB 9602	Ø 11.5
TD-M16C	BM, COSMEC (M16x1.5)	Ø 16.5
TD-27	BM, COSMEC (Ø105÷Ø140)	Ø 27.5
TD-14X14-M14	BM, COSMEC 46x46	Ø 18.8
TD-120X20-M20	BM, COSMEC 92x92	Ø 27.5
TD-20X20-M20 (with plug)	BM, COSMEC 42x95	Ø 27.5
TGD-13.5X13.5-M13	BM, COSMEC 40x40; 45x45; 46x46 (M13)	Ø 18.8
TGD-10X10-M9	BM, COSMEC 006505	Ø 13.8
TD-9	IMB 9601	Ø 9.5
TD-16	IMB 9603	Ø 16.5
TD-10X10-M10 (with plug)	IMB 9623	Ø 14.5
TD-14X14-M14/1"	IMB 9625	Ø 19,5
TD-20 (without plug)	IMB 9626	Ø 27.5
TD-20X20-M20-C (with plug)	IMB 9626	Ø 27.5

(*) The washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

CEMBRE

RHTD

NUT SPLITTING HEADS

general features



RHTD270

Suitable for splitting nuts mm	*16(M10)÷27(M18)*
Max operating pressure bar	*700*
Weight kg	*1,76*

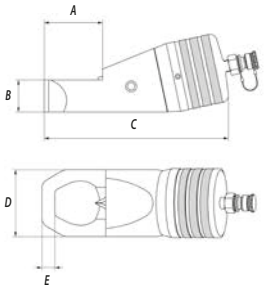
RHTD410T

Suitable for splitting nuts mm	*27(M18)÷41(M27)*
Max operating pressure bar	*700*
Weight kg	*4,9*

Hydraulic nut splitting head complete with automatic quick coupler. For operating the head must be joined to a hydraulic pump developing a pressure of 700 bar (see page 346-352).

Dimensions mm

	RHTD270	RHTD410T
A	40,5	77
B	25	41
C	105,5	222
D	54	75,5
E	7,5	21,5



STORAGE

Type	*VAL-P4*
Dimensions mm L x W x H	*315 x 300 x 95*
Weight kg	*0,93*
Supplied with the tool	✓



Application range

Type	HEXAGONAL NUTS		SQUARE NUTS	
	mm	ø	mm	ø
RHTD270	16	M 10	17	M 10
	17	M 10	19	M 12
	18	M 12	22	M 14
	19	M 12	24	M 16
	21	M 14	27	M 18
	22	M 14		
	24	M 16		
	27	M 18	27	M 18
RHTD410T	27	M 18	27	M 18
	30	M 20	30	M 20
	32	M 22	32	M 22
	34	M 22	34	M 24
	36	M 24	36	M 27
	41	M 27		

CORDLESS HYDRAULIC TOOLS



SYMBOL DESCRIPTION

cordless hydraulic tools



Crimping force kN



18.0 V Li-Ion high power batteries



Double speed action: a rapid approach speed and a slower more powerful speed for crimping or cutting



Openable compression head, ideal for derivations from running conductors



Openable cutting head, ideal for cutting running cables



Tool with a large 42 mm jaw opening, for easier introduction/removal of large size compression terminations and joints



blades manufactured from high strength special Steel, heat treated to ensure a long service life



Max cutting diameter



Max hole punching diameter



The head can rotate to enable the operator to work in the most comfortable position



OLED display with multi-function capacitive touch button: Crimping force being generated, Battery power availability, Tool identification, LED state, Reset, No. of operational and service crimping cycles, Tool service required



Battery condition displayed to show the residual battery power



Switch protected against accidental operation



Can be operated with one hand



The adaptive control function guarantees optimisation of the compression cycle, automatically interrupting it when the two dies meet, thus ensuring correct and precise compression



HOLD function piston advancement block allows the connector to be held without compressing it, facilitating the complete insertion of the conductor and verification of correct positioning



Equipped with safety valve as a additional safety element for the operator



Provided with a maximum pressure sensor that allows to check the correct execution of the compressions



Pressure release button



Extremely quiet in operation



Very little vibration



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced tool for greater control



LED lighting of the working area



Dual-compound plastic body
Greater safety and comfort in handling, thanks to the rubber inserts



Ensures optimal use of energy available



Durable moulded body offering high resistance to wear and damage in all operating conditions



Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface

SYMBOL DESCRIPTION

cordless hydraulic tools



Operating temperature range between -15 and +50°C



Hexagonal crimp



Radial crimp



Indent crimp



Deep indent crimp



Oval crimp



Trapezium crimp



Circular crimp



Max operating pressure



Manual pressure release button



Fitted with an integral socket, for connection to a 12 V dc external power supply



Contains isolated oil



Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV



CE marking



UKCA marking



"Bilinear" configuration
CEMBRE bilinear tools have their mechanical centre of gravity nearest to the operator's wrist to optimise the overall ergonomics of the tool and provide a wider support for the hand



"Pistol" configuration
The new design and mass distribution favour the easy handling during use



"Standard" configuration
The design allows the maximum stability and comfort in handling and ergonomics



Smart Release Technology
Automatic retraction of the ram only occurs when the operator releases the start button, this allows visual verification of the die to ensure that they have fully met prior to releasing



Electronic Pressure Sensor
The EPS guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator of possible errors



Electronic Cut Sensor
The ECS guarantees the precision of the cutting operation, checking the complete stroke of the blades and informing the operator about possible errors.



Safe Cut Technology
Fitted with LED indicators and a buzzer to communicate during progress and at the completion of the cutting operation.



Radio Remote Control
Radio control device to utility cable cutting operations in limited access locations, eg. in man-holes, to enable working from a safe distance.



Data recording and intelligent control allow complete verification of operational parameters. SMARTOOL technology enables the user to to store data from up to 200,000 cycles on the integrated memory card for transfer to a computer via a USB cable

18.0 V - 5.2 AH CORDLESS TOOL FEATURES

general features

1. Head rotates through 180°
2. Switch protected against accidental operation
3. Pressure release button
4. Slot-in battery with release button
5. LED lighting of the working area
6. Motor ventilation
7. Bi-component body for increased impact resistance
8. Multifunction OLED display with touch button
9. Improved balance for better handling
10. Anatomically shaped grip for greater comfort
11. 18.0 V - 5.2 Ah Li-Ion high power batteries
12. SMARTOOL technology for viewing and downloading operational data









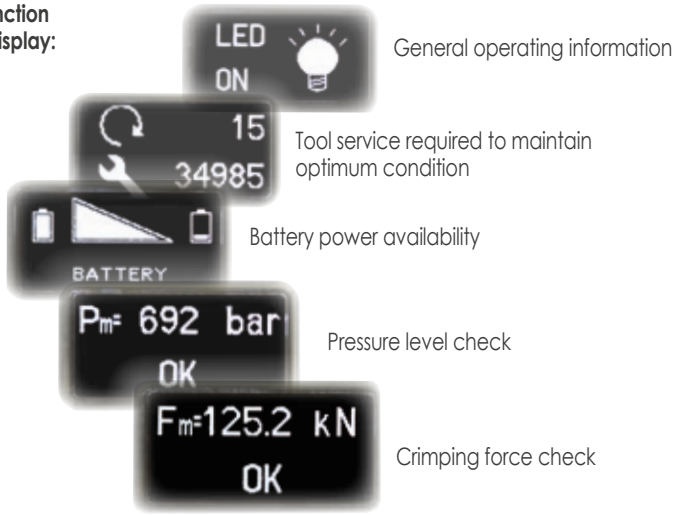
SUPPLIED WITH

1. CB1852L, 18.0 V - 5.2 Ah Li-Ion high power battery (2 pcs.)
2. ASC55-EU Battery charger with EUROPEAN plug
   ASC55-UK Battery charger with UK plug
   ASC55-USA/CA, AC charger (115V) with USA/CANADA plug
   ASC55-AUS/NZ, AC charger with AUSTRALIAN/NEW ZEALAND plug
   (INPUT 220-240 V / 50-60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
3. USB cable
4. Shoulder strap

- Plastic or Metal carrying case



Multifunction OLED display:



General operating information

Tool service required to maintain optimum condition

Battery power availability

Pressure level check

Crimping force check



18.0 V - 2.0 AH CORDLESS TOOL FEATURES

general features

1. Bilinear mechanical design
2. Smart Release system to automatically retract the ram at the end of the crimping cycle
3. OLED multifunctional display with touch button
4. Electronic Pressure Sensor (EPS)
5. SMARTOOL technology for viewing and downloading operational data
6. Illumination of working area via 4 x LED lights
7. Bi-component plastic body
8. Head rotates for ease of operation in confined spaces
9. Switch protected against accidental operation
10. Pressure release button
11. Slot-in battery with release button
12. Battery condition displayed to show the residual battery power
13. Motor ventilation
14. The tools are fitted with a maximum pressure valve to indicate a correct crimping operation or the full extent of the ram travel
15. Can be operated with one hand
16. Extremely quiet in operation with very little vibration
17. Anatomically shaped grip for greater comfort
18. 18.0 V - 2.0 Ah Li-Ion high power batteries



New Range nd

BILINEAR

SMART TECHNOLOGY RELEASE

EPS.

SMARTOOL TECHNOLOGY













SUPPLIED WITH

1. **CB1820L, 18.0 V - 2.0 Ah Li-Ion high power battery (2 pcs.)**
2. **ASC55-EU Battery charger with EUROPEAN plug**
   ASC55-UK Battery charger with UK plug
   ASC55-USA/CA, AC charger (115V) with USA/CANADA plug
   ASC55-AUS/NZ, AC charger with AUSTRALIAN/NEW ZEALAND plug
   (INPUT 220-240 V / 50-60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
3. **USB cable** (not for B15MD)

- Wrist strap
- Plastic carrying case



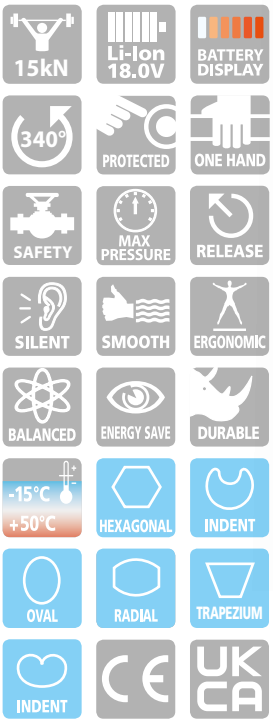
CEMBRE

B15MD

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B15MD	PLUG EU	ASC55-EU with EUROPEAN plug
B15MDE	PLUG UK	ASC55-UK with UK plug
B15MA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B15MDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



Can be operated with one hand.
Balanced for greater control.
Head rotates by 340° for ease of operation in confined spaces.
The tool is fitted with a maximum pressure valve.
Extremely quiet, minimal vibration.
Durable moulded body offering high resistance to wear and damage in all operating conditions.
Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
Supplied in a robust plastic case to accommodate the tool and all the accessories.
Two batteries and charger included.
Many different interchangeable crimping dies available.
Operating temperature:
-15 to +50 ° C

MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25÷1,5	1,5÷2,5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Copper lugs and splices	■	■	■	■	■															
Insulated terminals	■	■	■	■	■															
End sleeves	■	■	■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



TECHNICAL FEATURES

Crimping force kN	*15*
Dimensions mm	
Length	*335*
Height	*124*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*1,74*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓



The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- Plastic carrying case suitable for storing the tool and accessories

Many different interchangeable crimping dies available

Conductor Size sqmm	(AWG)	Connector Type	Die Set	
0,25 ÷ 16	22 ÷ 6	A... ; L...-M ; L...-P ; S... ; RN... ; BN... ; GN...	MA03/3-15	
1,5 ÷ 10	16 ÷ 8	A... ; L...-M ; L...-P	ME03/2-15	
10 ÷ 16	8 ÷ 6	A...; 2A... ; L...-M ; L...-P	ME2/3-15	
4 ÷ 10	12 ÷ 8	T... (NF C 20130 style) ; L...-T	MS4/10-15	
10 ÷ 16	8 ÷ 6	T... (NF C 20130 style) ; L...-T	MS10/16-15	
10 ÷ 16	8 ÷ 6	HR... ; HSV...	MH10/16-15	
6 ÷ 16	10 ÷ 6	DR... (DIN 46235 style) ; DSV... (DIN 46267 T1 style)	MK5/8-15	
10 ÷ 16	8 ÷ 6	ANE... ; AN... ; IN... ; EN...	NN4-15	
0,25 ÷ 6	22 ÷ 10	R... ; B... ; G... ; PL... ; NL...	RBG-15	
0,25 ÷ 6	22 ÷ 10	R... ; B... ; G... (not suffix P, RF/BF-BF)	RBY-15 with positioner	
0,3 ÷ 4	22 ÷ 12	PKE ; PKC ; PKD ; PKT ; KE	KE4-15	
4 ÷ 16	12 ÷ 6	PKE ; PKC ; PKD ; PKT ; KE	KE16-15	
16 ÷ 35	6 ÷ 2	PKE ; PKC ; PKD ; PKT ; KE	KE35-15	
2,5 - 4 - 6	14 -12 -10	CS4 (for photovoltaic systems)	MCS4-15	

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B450ND-BV

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■								
"C" sleeve Connectors			■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Tool Type	Plug Type	Supplied Battery Charger Type
B450ND-BV	PLUG EU	ASC55-EU with EUROPEAN plug
B450ND-BVE	PLUG UK	ASC55-UK with UK plug
B450ND-BVA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/ CANADA plug
B450ND-BVT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	*50*
Dimensions mm	
Length	*364*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*2,6*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓



B450ND-BV is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B450ND-BV is suitable for crimping electrical connectors onto conductor cross sections up to 150 mm² and uses the die sets common to all CEMBRE 45 kN tools and heads.
Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries. The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
Weight and balance have been reconfigured to yield improvements in handling and convenience. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
It is also a feature that the operating data is stored on a memory card for transfer to PC by USB interface (SMARTOOL technology).



The tool is supplied as:

- Basic tool with battery and wrist strap
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories



KIT-B450ND-BV-ME

COMPRESSION KIT

general features



The kit includes the B450ND-BV battery-powered hydraulic tool (50 kN) complete with 7 pairs of dies (from 25 to 150 mm²) and a practical and sturdy case for transporting the tool and its accessories.

KIT-B450ND-BV-ME

Kit includes:

B450ND-BV cordless hydraulic tool	
VALP22 plastic carrying case with accessories	
CB1820L Battery Li-Ion 18.0 V - 2.0 Ah	
ASC55-EU Battery Charger	
7 die sets:	
ME5	Hexagonal crimp for low voltage terminals and through connectors from 25 to 150 mm² A-M family
ME7	
ME10	
ME14	
ME19	
ME24	
ME30	

CEMBRE

B500ND

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

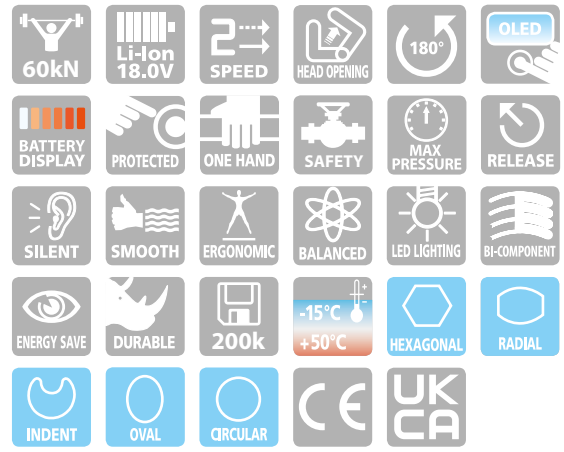
general features

Tool Type	Plug Type	Supplied Battery Charger Type
B500ND	PLUG EU	ASC55-EU with EUROPEAN plug
B500NDE	PLUG UK	ASC55-UK with UK plug
B500NDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B500NDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



BILINEAR

SMART TECHNOLOGY RELEASE

EPS.

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*396*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,15*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓

B500ND is the first of a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Equipped with a Smart Release system which automatically retracts the ram at the end of the operating cycle.

B500ND is suitable for crimping electrical connectors onto conductor cross sections up to 300 mm² and uses the die sets common to all CEMBRE 50kN tools and heads.

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery, Battery charger, USB cable
- Plastic carrying case suitable for storing the tool and accessories

KIT-B500ND-1
KIT-B500ND/320F

B500ND COMPRESSION/CUTTING KIT

general features



KIT-B500ND-1

Kit includes:

B500ND cordless hydraulic tool
VALP22 plastic carrying case with accessories
8 die sets:
ME5-50
ME7-50
ME10-50
ME14-50
ME19-50
ME24-50
ME30-50
ME37-50
ME48-50

Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² A-M family

NEW



KIT-B500ND/320F

Kit includes::

B500ND cordless hydraulic tool
B-TC320NDF cordless hydraulic cutting tool
VAL-M/X5 plastic carrying case with accessories
8 die sets:
ME5-50
ME7-50
ME10-50
ME14-50
ME19-50
ME24-50
ME30-50
ME37-50
ME48-50

Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² A-M family

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B540ND6

general features

MAIN APPLICATIONS - max section AWG

- Copper lugs and splices 300 MCM
- Aluminium lugs and splices 4/0
- Aluminium H taps 4/0 - 4/0

TECHNICAL FEATURES

Crimping force kN	*54*
Dimensions mm	
Length	*495*
Height	*145*
width	*88*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery and CDD6N)	*3,4*

STORAGE

Type	*VAL-P60*
Dimensions mm L x W x H	*620 x 360 x 138*
Weight kg	*2,4*
Supplied with the tool	✓



The professional tool ideal for OH lines and residential service applications.



The tool is supplied as:

- Basic tool with jaws CDD6N, battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Tool Type	Plug Type	Supplied Battery Charger Type
B540ND6	PLUG EU	ASC55-EU with EUROPEAN plug
B540ND6E	PLUG UK	ASC55-UK with UK plug



B540ND6 is the first of a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical structure. Equipped with intelligent auto-return at the end of the operating cycle (Smart Release). Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries.
Jaws rotate by 180° for ease of operation in confined spaces.

Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator.

Interchangeable Jaws
Many different CEMBRE interchangeable crimping and cutting jaws are available upon request .

CDD6N jaws



CMB4N jaws



CDD6-6N jaws



CMB5N jaws



CDD6-8N jaws



CMB6N jaws



INTERCHANGEABLE CRIMPING AND CUTTING JAWS

CAT. No	GROOVES	CRIMPING DIE COMPATIBILITY	
CDD6N	"D3" TO ACCEPT ALL "W" STYLE CRIMPING DIES + "BG" FIXED GROOVE	FCI Burndy	W, X Series
		Greenlee	KD6 Series
		Ilsco	ND Series
		Huskie	HT-58 Series
		Panduit	CD-2001 series
CDD6-6N	"D3" TO ACCEPT ALL "W" STYLE CRIMPING DIES	FCI Burndy	W, X Series
		Greenlee	KD6 Series
		Ilsco	ND Series
		Huskie	HT-58 Series
		Panduit	CD-2001 series
CDD6-8N	"D3" TO ACCEPT ALL "W" STYLE CRIMPING DIES + "O" FIXED GROOVE	FCI Burndy	W, X Series
		Greenlee	KD6 Series
		Ilsco	ND Series
		Huskie	HT-58 Series
		Panduit	CD-2001 series
CMB4N	Cutting jaws for underground: Aluminum & Copper stranded cables. Max opening 32 mm		
CMB5N	Cutting jaws for OHL: up to 200 mm² ACSR and BLX cable		
CMB6N	Cutting jaws for guy wires: Up to Ø 10 mm galvanised steel wire (<1250N/mm²)		

CEMBRE

B500

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

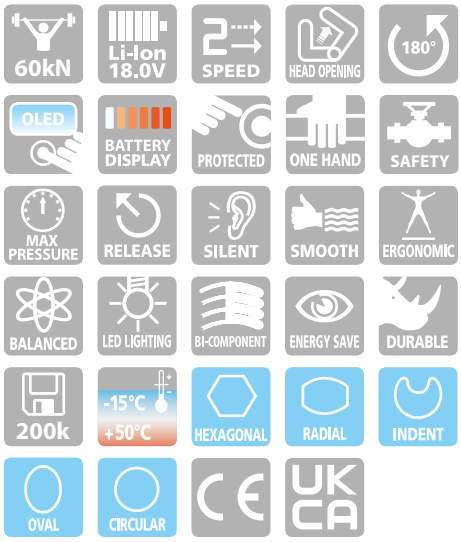
Tool Type	Plug Type	Supplied Battery Charger Type
B500	PLUG EU	ASC55-EU with EUROPEAN plug
B500E	PLUG UK	ASC55-UK with UK plug
B500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B500T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384





PISTOL

EPS.

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Crimping force kN	*63*
Dimensions mm	
Length	*300*
Height	*343*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,2*

STORAGE

Type	*VAL-P38*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The 63 kN B500 is suitable for a wide range of connectors up to 300 sqmm using die sets common to the CEMBRE 50 kN tooling range. Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:
- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.



B500-KV version also available for Power Supply Companies

The tool is supplied as:
- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 14 die sets

KIT-B500-1
KIT-B500-2
KIT-B500-MK

B500 COMPRESSION KIT

general features

KIT-B500-1

Kit includes:

B500 cordless hydraulic tool	
VAL-P38 plastic carrying case with accessories	
8 die sets:	
ME5-50	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² A-M family
ME7-50	
ME10-50	
ME14-50	
ME19-50	
ME24-50	
ME30-50	
ME37-50	
ME48-50	

KIT-B500-2

Kit includes:

B500 cordless hydraulic tool		
VAL-P38 plastic carrying case with accessories		
6 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 25 to 120 mm²
MA5-50	PA5-50	
MA7-50	PA10-50	
MA10-50		
MA14-50	PA19-50	
MA19-50		
MA24-50	PA24-50	

KIT-B500-MK

Kit includes:

B500 cordless hydraulic tool	
VAL-P38 plastic carrying case with accessories	
10 die sets:	
MK8-50	Hexagonal crimp for low voltage terminals and through connectors from 16 to 240 mm² DIN 46235 family
MK10-50	
MK12-50	
MK14-50	
MK16-50	
MK18-50	
MK20-50	
MK22-50	
MK25-50	
MK28-50	

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

BA500

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

Tool Type	Plug Type	Supplied Battery Charger Type
BA500	PLUG EU	ASC55-EU with EUROPEAN plug
BA500E	PLUG UK	ASC55-UK with UK plug
BA500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*300*
Height	*343*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,2*

STORAGE

Type	*VAL-M/X3*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*3,5*
Supplied with the tool	✓

ADAPTIVE AC CONTROL

PISTOL

EPS

SMARTOOL TECHNOLOGY





The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Perfect for installing compression electrical connectors on conductors up to 300 mm², the BA500 with adaptive control is the ideal solution for all electrical compression needs.

This innovative tool uses the series of dies compatible with the 50 kN tools and heads produced by CEMBRE, guaranteeing maximum versatility and reliability.

Equipped with high-capacity 18 V 5.2 Ah Li-Ion batteries, it offers optimal performance for long work sessions.

The advanced OLED display allows you to easily monitor various parameters, including:

- **Force developed**: to verify the correct execution of the compression
- **Battery charge status**
- **General operating information**
- **Number of work cycles** completed and remaining: to plan maintenance

The BA500 is the tool that guarantees precision, efficiency and control in every operation.

Adaptive control

The ADAPTIVE CONTROL function guarantees optimisation of the crimping cycle, automatically interrupting the cycle when the two dies come into contact.

This innovative approach eliminates the need to reach maximum pressure at each cycle, as is the case with traditional tools, reducing tool wear and ensuring the same quality standards as maximum pressure crimping.

The advantages?

- **Less mechanical stress on the tool and longer component life**
- **Energy savings and longer battery life**

At the end of each cycle, the system provides an analysis of the energy reduction compared to the standard cycle, indicating the percentage savings **(SAVED ...%)**.

Using the HOLD function, the tool stops automatically when the dies come into contact with the connector, without deforming it, this allows it to be held in place, facilitating complete insertion of the conductor and allowing correct positioning to be checked before crimping, thus **reducing errors.** A smart solution for precise, efficient and long-lasting operations.

NEW · 60kN · ADAPTIVE AC CONTROL · HOLD · Li-Ion 18.0V · BATTERY DISPLAY · 2 SPEED · HEAD OPENING · 180° · OLED · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA

ADAPTIVE OFF AC ON CONTROL

P 350 bar 4351 psi | OK SAVED -50 %

CEMBRE

B600CND

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B600CND	PLUG EU	ASC55-EU with EUROPEAN plug
B600CNDE	PLUG UK	ASC55-UK with UK plug
B600CNDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/ CANADA plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384





BILINEAR

EPS

SMART TECHNOLOGY RELEASE

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*397*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,15*

STORAGE

Type	*VAL-M/L1*
Dimensions mm L x W x H	*496 x 296 x 145*
Weight kg	*2,3*
Supplied with the tool	✓

The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B600CND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Equipped with a Smart Release system which automatically retracts the ram at the end of the operating cycle. B600CND is suitable for crimping electrical connectors onto conductor cross sections up to 300 mm².
Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries. Head rotate by 180° for ease of operation in confined spaces.
Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator.

The EPS guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator about possible errors (EPS).
The OLED display provides essential real time operating data, including:
- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before.

KIT-B600CND-MK
KIT-B600CND-MH

B600CND COMPRESSION KIT

general features



NEW

The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

KIT-B600CND-MK

Kit includes:

B600CND cordless hydraulic tool	
VAL-M/L1 plastic carrying case with accessories	
9 die sets:	
MK10-60C	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² DIN 46235 family
MK12-60C	
MK14-60C	
MK16-60C	
MK18-60C	
MK20-60C	
MK22-60C	
MK25-60C	
MK28-60C	

KIT-B600CND-MH

Kit includes:

B600CND cordless hydraulic tool	
VAL-M/L1 plastic carrying case with accessories	
9 die sets:	
MH25-60	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² de 16 à 240 mm²
MH35-60	
MH50-60	
MH70-60	
MH95-60	
MH120-60	
MH150-60	
MH185-60	
MH240-60	

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B600C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Tool Type	Plug Type	Supplied Battery Charger Type
B600C	PLUG EU	ASC55-EU with EUROPEAN plug
B600CE	PLUG UK	ASC55-UK with UK plug
B600CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/ CANADA plug

TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*300*
Height	*350*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,5*

STORAGE

Type	*VAL-P61*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓

PISTOL

EPS.

SMARTOOL TECHNOLOGY





The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

60kN · Li-Ion 18.0V · BATTERY DISPLAY · 2 SPEED · HEAD OPENING · 180° · OLED · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · INDENT · TRAPEZIUM · CE · UKCA

The B600C is a new generation of portable cordless tools that are characterized by even better functionality. The B600C is suitable for crimping cable lugs and connectors up to 300 mm².
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.
The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

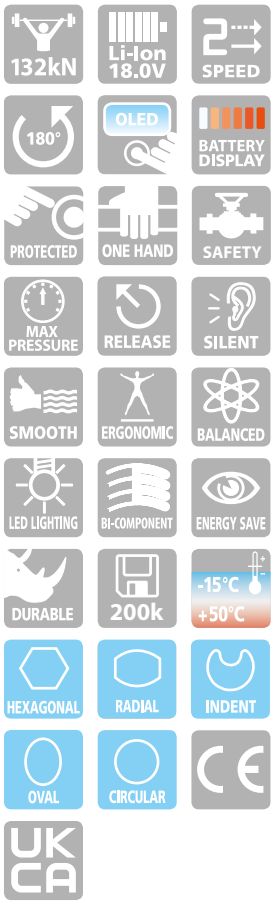
CEMBRE

B1350-C

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B1350-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1350-CE	PLUG UK	ASC55-UK with UK plug
B1350-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1350-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



B1350-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.
The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



PISTOL

EPS.

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*338*
Height	*344*
Width	*83*
Jaw Opening mm	*25*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,5*

STORAGE

Type	*VAL-P39*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets



B1350-C-KV version also available for Power Supply Companies

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1350L-C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Tool Type	Plug Type	Supplied Battery Charger Type
B1350L-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1350L-CE	PLUG UK	ASC55-UK with UK plug
B1350L-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1350L-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	132
Dimensions mm	
Length	395
Height	372
Width	83
Jaw Opening mm	42
Battery	18.0V 5.2Ah
Weight kg (with Battery)	8,1

STORAGE

Type	VAL-P39
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



PISTOL

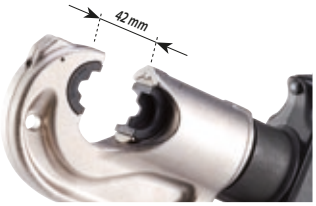
EPS.

SMARTOOL TECHNOLOGY



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets



B1350L-C version, featuring a large 42 mm jaw opening, for an easier introduction/removal of large size compression terminations and joints.



B1350L-C-KV version also available for Power Supply Companies

132kN · Li-Ion 18.0V · SPEED · 180° · 42 mm HEAD OPENING · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA

B1350L-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range. Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.
The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

CEMBRE

B1350-UC

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B1350-UC	PLUG EU	ASC55-EU with EUROPEAN plug
B1350-UCE	PLUG UK	ASC55-UK with UK plug
B1350-UCA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1350-UCT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

132kN · Li-Ion 18.0V · SPEED · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · DEEP INDENT · OVAL · CIRCULAR · CE · UK CA

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



PISTOL · EPS · SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Crimping force kN	132
Dimensions mm	
Length	351
Height	369
Width	83
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,3

STORAGE

Type	VAL-P39
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets

B1350-UC will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.
The B1350-UC will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

STORAGE

Type	VAL-130*
Dimensions mm L x W x H	360 x 280 x 48
Weight kg	3,0
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*



VAL-130

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1300-C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Tool Type	Plug Type	Supplied Battery Charger Type
B1300-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1300-CE	PLUG UK	ASC55-UK with UK plug
B1300-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1300-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	132
Dimensions mm	
Length	406
Height	239
Width	102,5
Jaw Opening mm	25
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,8

STORAGE

Type	VAL-P44
Dimensions mm L x W x H	680 x 473 x 151
Weight kg	3,7
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

B1300-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.



B1300-C-KV version also available for Power Supply Companies



B1300-C COMPRESSION KIT

KIT-B1300-C-1
KIT-B1300-C-2
KIT-B1300-C-MK

general features

KIT-B1300-C-1

Kit includes:

B1300-C cordless hydraulic tool	
VAL-P44 plastic carrying case with accessories	
7 die sets:	
ME10-C	Hexagonal crimp for low voltage terminals and through connectors from 50 to 240 mm² A-M family
ME14-C	
ME19-C	
ME24-C	
ME30-C	
ME37-C	
ME48-C	

KIT-B1300-C-2

Kit includes:

B1300-C cordless hydraulic tool		
VAL-P44 plastic carrying case with accessories		
11 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 10 to 240 mm²
MA2-C	PA10-C	
MA3-C		
MA5-C		
MA7-C		
MA10-C		
MA14-C	PA24-C	
MA19-C		
MA24-C		
MA30-C	PA48-C	
MA37-C		
MA48-C		

KIT-B1300-C-MK

Kit includes:

B1300-C cordless hydraulic tool	
VAL-P44 plastic carrying case with accessories	
11 die sets:	
MK6-C	Hexagonal crimp for low voltage terminals and through connectors from 10 to 240 mm² DIN 46235 family
MK8-C	
MK10-C	
MK12-C	
MK14-C	
MK16-C	
MK18-C	
MK20-C	
MK22-C	
MK25-C	
MK28-C	

CEMBRE

B1300L-C

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B1300L-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1300L-CE	PLUG UK	ASC55-UK with UK plug
B1300L-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1300L-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384



EPS.

STANDARD

SMARTOOL TECHNOLOGY





TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*471*
Height	*239*
Width	*102,5*
Jaw Opening mm	*42*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*8,0*

STORAGE

Type	*VAL-P44*
Dimensions mm L x W x H	*680 x 473 x 151*
Weight kg	*3,7*
Supplied with the tool	✓



The B1300L-C version, featuring a large 42 mm jaw opening, for an easier introduction/removal of large size compression terminations and joints.
B1300L-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:
- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

The tool is supplied as:
- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets



B1300L-C-KV version also available for Power Supply Companies

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1300-UC

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

Tool Type	Plug Type	Supplied Battery Charger Type
B1300-UC	PLUG EU	ASC55-EU with EUROPEAN plug
B1300-UCE	PLUG UK	ASC55-UK with UK plug
B1300-UCA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1300-UCT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*423*
Height	*239*
Width	*102,5*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,5*

EPS. STANDARD SMARTOOL TECHNOLOGY



132kN · Li-Ion 18.0V · 2 SPEED · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · DEEP INDENT · OVAL · CIRCULAR · CE · UKCA

STORAGE

Type	*VAL-P44*
Dimensions mm L x W x H	*680 x 473 x 151*
Weight kg	*3,7*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

STORAGE

Type	*VAL-130**
Dimensions mm L x W x H	*360 x 280 x 48*
Weight kg	*3,0*
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*



VAL-130

B1300-UC will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.
The B1300-UC will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

CEMBRE

B-TC250ND

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC250ND	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC250NDE	PLUG UK	ASC55-UK with UK plug
B-TC250YNDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/ CANADA plug
B-TC250NDT B-TC250YNDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm

BILINEAR

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Max cutting Ø mm	25
Dimensions mm	
Length	401
Height	126
Width	79
Battery	18.0V 2.0Ah
Weight kg (with Battery)	3,5

STORAGE

Type	VAL-P22
Dimensions mm L x W x H	465 x 315 x 116
Weight kg	1,5
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B-TC250ND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC250ND is specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC250ND B-TC250NDE B-TC250YNDA B-TC250NDT B-TC250YNDT
ROPES & CONDUCTORS	COPPER	≤ 41	25
	ALUMINIUM	≤ 20	25
	ALMELEC	≤ 34	25
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	25 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80
RODS	STEEL	≤ 60	13
		≤ 42	16
	COPPER	≤ 30	20
		≤ 25	23
	ALUMINIUM	≤ 16	25

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC320ND

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 32 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC320ND	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC320NDE	PLUG UK	**ASC55-UK** with UK plug
B-TC320NDA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B-TC320NDT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	*32*
Dimensions mm	
Length	*443*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,95*

BILINEAR

SMARTOOL TECHNOLOGY



STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories



CUTTING CAPACITY - a few examples

Section mm²	Ø mm	Stranding	Cable Type
120	13,3 mm	-	*RIM120*
50	8,9	7 x 2,95 mm	*Bronze*
70	10,3	19 x 2,06 mm	*Bronze*
95	12,5	19 x 2,50 mm	*Bronze*
70	10,7	19/2,14	*Aluminium*
95	12,5	19/2,5	*Aluminium*
150	15,75	37/2,25	*Aluminium*
323	23,25	19/4,65	*Aluminium*
415	-	37/3,78	*Aluminium*
35/6	8,1	6/2,70 + 1/2,70	*Aluminium-steel*
50/8	9,6	6/3,20 + 1/3,20	*Aluminium-steel*
50/30	11,7	12/2,33 + 7/2,33	*Aluminium-steel*
70/12	11,6	26/1,85 + 7/1,44	*Aluminium-steel*
95/15	13,4	26/2,15 + 7/1,67	*Aluminium-steel*
150/25	17,3	26/2,70 + 7/2,10	*Aluminium-steel*
170/40	18,95	30/2,79 + 7/2,79	*Aluminium-steel*
185/30	19,0	26/3,00 + 7/2,33	*Aluminium-steel*
230/30	21,0	24/3,5 + 7/2,33	*Aluminium-steel*
240/40	21,9	26/3,45 + 7/2,68	*Aluminium-steel*
495/35	29,9	45/3,74 + 7/2,49	*Aluminium-steel*
297,7 (OSPREY)	22,33	18/4,47 + 1/4,47	*Aluminium-steel*
327,9 (DOVE)	23,55	26/3,72 + 7/2,84	*Aluminium-steel*
239	20,1	37/2,87	*Rope Aluminum Alloy*
50	11,0	Class 5	*Aluminium flex*
95	18,5 mm	-	*Steel flex*
153	16,0	19/3,2	*Cu*
70	19,5	2214/0,2	*Cu extra flex*
16	9,0	126/0,4	*Cu flex*
120	19,9	608/0,5	*Cu flex*
240	-	1221/0,5	*Cu flex*

B-TC320ND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC320ND is specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 32 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC250

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC250	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC250E	PLUG UK	ASC55-UK with UK plug
B-TC250YA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC250T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 25mm · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm



PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	25
Dimensions mm	
Length	300
Height	337
Width	83
Battery	18.0V 5.2Ah
Weight kg (with Battery)	4,65

STORAGE

Type	VAL-P40
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC250 B-TC250E B-TC250YA B-TC250T
ROPES & CONDUCTORS	COPPER	≤ 41	25
	ALUMINIUM	≤ 20	25
	ALMELEC	≤ 34	25
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	25 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80
RODS	STEEL	≤ 60	13
		≤ 42	16
	COPPER	≤ 30	20
		≤ 25	23
	ALUMINIUM	≤ 16	25

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC450

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC450	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC450E	PLUG UK	ASC55-UK with UK plug
B-TC450A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

TECHNICAL FEATURES

Max cutting Ø mm	*45*
Dimensions mm	
Length	*407*
Height	*401*
Width	*88*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,7*

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



PISTOL

SMARTOOL TECHNOLOGY

Ø 45mm | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | -15°C +50°C | CE | UKCA



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC450 B-TC450E B-TC450A
ROPES & CONDUCTORS	COPPER	≤ 41	45
	ALUMINIUM	≤ 20	45
	ALMELEC	≤ 34	45
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	45 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20
RODS	STEEL	≤ 60	18
		≤ 42	20
	COPPER	≤ 30	30
		≤ 25	32
	ALUMINIUM	≤ 16	45

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC500Y

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC500Y	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC500YE	PLUG UK	ASC55-UK with UK plug
B-TC500YA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 50 mm

Not suitable for cutting stay wire, Steel rope or earthing rod



TECHNICAL FEATURES

Max cutting Ø mm	*50*
Dimensions mm	
Length	*405*
Height	*398*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,8*

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium, Aluminum-Steel cables (ACSR) having a max overall diameter of 50 mm. The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC550

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 55 mm



Tool Type	Plug Type	Supplied Battery Charger Type
B-TC550	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC550E	PLUG UK	ASC55-UK with UK plug
B-TC550A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC550T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	*55*
Dimensions mm	
Length	*441*
Height	*424*
Width	*87*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*8,9*

PISTOL

SMARTOOL TECHNOLOGY

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 55mm · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · SPECIAL · 330° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC550 B-TC550E B-TC550A B-TC550T
ROPES & CONDUCTORS	COPPER	≤ 41	55
	ALUMINIUM	≤ 20	55
	ALMELEC	≤ 34	55
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	22
	ACSR	≤ 180	50 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 26 x 4,44 + 7 x 3,45 : Ø est. = 28,14 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20 83 x 4,60 + 16 x 2,80 : Ø est. = 50,00
	GUY WIRE (GW15-9/16-188)	Extra high strenght grade	7 x 4,77 : Ø est. =14,30 mm
RODS	STEEL	≤ 60	20
		≤ 42	22
	COPPER	≤ 30	34
		≤ 25	38,5
	ALUMINIUM	≤ 16	50

Next generation of 18.0 V cordless hydraulic cutting tool Specifically designed cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 55 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action. The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 330 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC320NDF

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 32 mm



B-TC320NDF is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 32 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC320NDF	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC320NDFE	PLUG UK	**ASC55-UK** with UK plug
B-TC320NDFA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B-TC320NDFT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug

BILINEAR

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	*32*
Dimensions mm	
Length	*443*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*4,0*

STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



B-TC400ND-SC

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 40 mm



B-TC400ND-SC is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 40 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC400ND-SC	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC400ND-SCE	PLUG UK	**ASC55-UK** with UK plug
B-TC400ND-SCA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug

BILINEAR

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	*40*
Dimensions mm	
Length	*466*
Height	*111*
Width	*80*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,55*

STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC500ND-SC

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 52,5 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC500ND-SC	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC500ND-SCE	PLUG UK	**ASC55-UK** with UK plug
B-TC500ND-SCA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B-TC500ND-SCT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	*52,5*
Dimensions mm	
Length	*529*
Height	*135*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,91*

BILINEAR

SMARTOOL TECHNOLOGY



STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories



B-TC500ND-SC is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC500ND-SC is specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 52,5 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC500

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC500	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC500E	PLUG UK	ASC55-UK with UK plug
B-TC500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC500T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 50 mm



TECHNICAL FEATURES

Max cutting Ø mm	*50*
Dimensions mm	
Length	*405*
Height	*398*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,8*

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 50 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC650

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC650	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC650E	PLUG UK	ASC55-UK with UK plug
B-TC650A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC650T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	65
Dimensions mm	
Length	429
Height	415
Width	83
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,4

STORAGE

Type	VAL-P40
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



Ø 65mm · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · SPECIAL · 335° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 65 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action. The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 335 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC650-SC

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC650-SC	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC650-SCE	PLUG UK	ASC55-UK with UK plug
B-TC650-SCA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC650-SCT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm



PISTOL

SMARTOOL TECHNOLOGY

Ø 65mm · Li-ion 18.0V · 2 SPEED · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

TECHNICAL FEATURES

Max cutting Ø mm	*65*
Dimensions mm	
Length	*503*
Height	*464*
Width	*105*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*7,7*

STORAGE

Type	*VAL-B-TC950*
Dimensions mm L x W x H	*565 x 410 x 132*
Weight kg	*6,7*
Supplied with the tool	✓

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 65 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The open head and the "scissor" movement of the blades facilitate the cutting of running cables.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Metal carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC950

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 95 mm



PISTOL

SMARTOOL TECHNOLOGY

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC950	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC950E	PLUG UK	ASC55-UK with UK plug
B-TC950A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC950T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 95mm | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 335° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | -15°C +50°C | CE | UKCA

TECHNICAL FEATURES

Max cutting Ø mm	*95*
Dimensions mm	
Length	*518*
Height	*468*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*7,8*

STORAGE

Type	*VAL-B-TC950*
Dimensions mm L x W x H	*565 x 410 x 132*
Weight kg	*6,7*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Metal carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 95 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 335 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC4500

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC4500	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC4500E	PLUG UK	ASC55-UK with UK plug
B-TC4500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC4500T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm

STANDARD

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Max cutting Ø mm	45
Dimensions mm	
Length	486
Height	239
Width	103
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,44

STORAGE

Type	VAL-P44
Dimensions mm L x W x H	680 x 473 x 151
Weight kg	3,7
Supplied with the tool	✓



Ø 45mm · Li-Ion 18.0V · SPEED · HEAD OPENING · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC4500
ROPES & CONDUCTORS	COPPER	≤ 41	45
	ALUMINIUM	≤ 20	45
	ALMELEC	≤ 34	45
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	45 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20
RODS	STEEL	≤ 60	18
		≤ 42	20
	COPPER	≤ 30	30
		≤ 25	32
	ALUMINIUM	≤ 16	45

18.0 V CORDLESS HYDRAULIC FRAME-TYPE HOLE PUNCHING TOOL

B-FC470

general features

MAIN APPLICATIONS

specifically designed to punching holes from 15,5 up to 47,2 mm diameter

Tool Type	Plug Type	Supplied Battery Charger Type
B-FC470	PLUG EU	ASC55-EU with EUROPEAN plug
B-FC470E	PLUG UK	ASC55-UK with UK plug
B-FC470A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

TECHNICAL FEATURES

Max hole punch Ø mm	*47,2*
Max centre of hole to edge of trunking (mm)	*53,5*
Dimensions mm	
Length	*379*
Height	*346*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,2*

STORAGE

Type	*VAL-FC470*
Dimensions mm L x P	*559 x 459 x 131*
Weight kg	*6,7*
Supplied with the tool	✓



PISTOL

SMARTOOL TECHNOLOGY



The tool is supplied as:

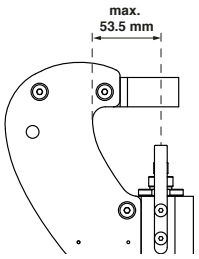
- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Metal carrying case suitable for storing the tool and accessories

Ø 47,2mm | Li-Ion 18.0V | 2 SPEED | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | -15°C +50°C | CE | UKCA

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to punching holes from 15,5 up to 47,2 mm diameter in the side wall of trunking without the need for pre drilling.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action. The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button. The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C
Also available in the hand operated mechanical version MT-FC48N (see page 178).

Table denotes the punch/die set reference, for each hole size. Suitable for punching holes in mild Steel, fiberglass or plastic material, up to 2 mm thick.

Hole Dimensions					Maximum thickness of mild Steel (mm)	Type
Nominal Ø (mm)	Nominal Ø (inch)	Pg	ISO	Inch		
15,5	.610	Pg9	-	-	2	RD15.5SS-FC
16,2	.638	-	ISO-16	-		RD16.2SS-FC
17,5	.689	-	-	-		RD17.5SS-FC
18,8	.740	Pg11	-	-		RD18.8SS-FC
19,1	.752	-	-	-		RD19.1SS
20,5	.807	Pg 13,5	ISO-20	-		RD20.5SS
22,6	.890	Pg16	-	-		RD22.6SS
23,8	.937	-	-	5/8"		RD23.8SS
25,4	1.000	-	ISO-25	-		RD25.4SS
27,0	1.063	-	-	3/4"		RD27SS
28,5	1.122	Pg21	-	-		RD28.5SS
30,5	1.201	-	-	7/8"		RD30.5SS
31,8	1.252	-	-	-		RD31.8SS
32,5	1.279	-	ISO-32	-		RD32.5SS
34,6	1.362	-	-	-		RD34.6SS
37,2	1.464	Pg29	-	-		RD37.2SS
38,1	1.500	-	-	-		RD38.1SS
40,5	1.594	-	ISO-40	-		RD40.5SS-FC
41,3	1.626	-	-	-		RD41.3SS-FC
42,5	1.673	-	-	1"1/4"		RD42.5SS-FC
43,2	1.701	-	-	-		RD43.2SS-FC
44,5	1.752	-	-	-		RD44.5SS-FC
47,2	1.858	Pg36	-	-		RD47.2SS-FC



CEMBRE

B-FL750ND

18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B-FL750ND	PLUG EU	ASC55-EU with EUROPEAN plug
B-FL750NDE	PLUG UK	ASC55-UK with UK plug
B-FL750NDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-FL750NDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 140mm · Li-Ion 18.0V · 2 SPEED · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

BILINEAR

SMARTOOL TECHNOLOGY

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness



B-FL750ND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. B-FL750ND is specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action. The battery is equipped with LED indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
For the punch-die selection chart see page 343.
Operating temperature:
-15 to +50 ° C

TECHNICAL FEATURES

Max Punching Ø mm	*140*
Dimensions mm	
Length	*467*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*4,1*

STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Puller TD-11
- Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories

KIT-B-FL750ND-1
KIT-B-FL750ND-3

KIT FOR HOLE PUNCHING

general features



The kit is supplied as:
- Basic tool with battery and wrist strap
- Spare battery (KIT-B-FL750ND-1)
- Battery charger
- USB cable
- Puller TD-11
- Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories

KIT-B-FL750ND-1	
Kit includes:	
B-FL750ND cordless hydraulic puller-type hole punching tool	
VAL-M/X1 plastic carrying case with accessories	
Puller TD-11	
Puller TD-19	
spiral bit Ø 11,5 mm	
4 KIT for round punch:	
KIT-RD18.8SS	Pg11
KIT-RD20.5SS	Pg13.5 ISO20
KIT-RD22.6SS	Pg16
KIT-RD28.5SS	Pg21

KIT-B-FL750ND-3	
Kit includes:	
B-FL750ND cordless hydraulic puller-type hole punching tool	
VAL-M/X1 plastic carrying case with accessories (1 battery)	
Puller TD-11	
Puller TD-19	
spiral bit Ø 11,5 mm	
4 KIT for round punch:	
KIT-RD20.5SS	Pg13.5 ISO20
KIT-RD22.6SS	Pg16
KIT-RD25.4SS	ISO-25
KIT-RD32.5SS	ISO-32

18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL

B-FL750

general features

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness

Tool Type	Plug Type	Supplied Battery Charger Type
B-FL750	PLUG EU	ASC55-EU with EUROPEAN plug
B-FL750E	PLUG UK	ASC55-UK with UK plug
B-FL750A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-FL750T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

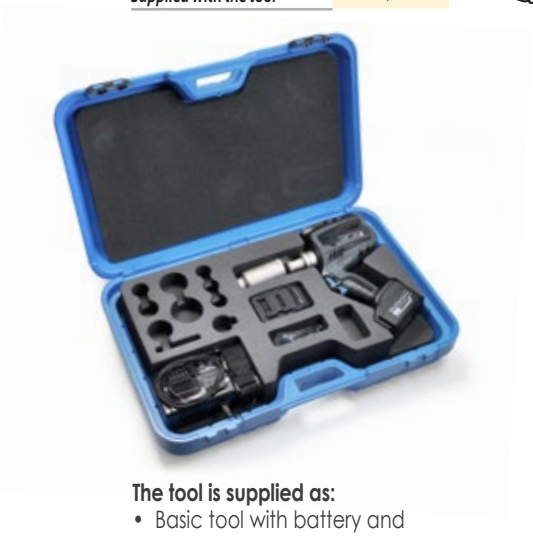
Max Punching Ø mm	*140*
Dimensions mm	
Length	*363*
Height	*366*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,1*

PISTOL

STORAGE

Type	*VAL-P56*
Dimensions mm L x W x H	*690 x 446 x 179*
Weight kg	*5,5*
Supplied with the tool	✓





Ø 140mm · Li-Ion 18.0V · 2 SPEED · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger; USB cable
- Puller TD-11; Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness. New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity than 14.4 V 3 Ah, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
For the punch-die selection chart see page 343.
Operating temperature:
-15 to +50 ° C



Universal joint allows punching head to pivot 180deg over a full 360deg rotation.

CEMBRE

KIT-B-FL750-1

KIT FOR HOLE PUNCHING

general features





TECHNICAL FEATURES	
Max Punching Ø mm	*140*
Dimensions mm	
Length	*363*
Height	*366*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,1*

STORAGE	
Type	*VAL-P56*
Dimensions mm L x W x H	*690 x 446 x 179*
Weight kg	*5,5*
Supplied with the tool	✓

PISTOL

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Puller TD-11, Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories

KIT-B-FL750-1

Kit includes:

B-FL750 cordless hydraulic puller-type hole punching tool	
VAL-P56 plastic carrying case with accessories	
Puller TD-11	
Puller TD-19	
spiral bit Ø 11,5 mm	
4 KIT for round punch:	
KIT-RD18.8SS	Pg11
KIT-RD20.5SS	Pg13.5
KIT-RD22.6SS	Pg16
KIT-RD28.5SS	Pg21



PUNCHING ACCESSORIES AVAILABLE

for B-FL750ND, B-FL750 and KIT-B-FL750-1

Round punch

Hole diameter					Material max thickness (mm)		Pilot hole Ø	Type	
Nominal		Pg	ISO	GAS	Stainless Steel	Mild Steel	Ø	KIT (Punch + Die)	Puller
Ø (mm)	Ø (inch)						(mm)		
15,5	.610	Pg9	-	-	2,5 mm (0.1 in.) Rm= 700 N/mm²	3,5 mm (0.14 in.) Rm= 510 N/mm²	11,5	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17,0	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	
22,6	.890	Pg16	-	-				RD22.6SS	
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27,0	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg 21	-	-			20,0	RD28.5SS-19	TD-19
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34,0	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-				RD47.2SS	
48,5	1.909	-	-	G1"1/2"				RD48.5SS	
50,5	1.988	-	ISO-50	-				RD50.5SS	
51,4	2.023	-	-	-				RD51.4SS	
52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60,0	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64,0	2.520	-	ISO-63	-				RD64SS	
65,0	2.559	-	-	-				RD65SS	
76,0	2.992	-	-	G2"1/2"		3		RD76SS	
76,5	3.011	-	-	-		3,5		RD76.5SS	
80,5	3.169	-	-	-		3		RD80.5SS	
89,0	3.503	-	-	G3"		3,5		RD89SS	
90,0	3.543	-	-	-	2	3		RD90SS	
100,0	3.937	-	-	-	2	3	29,0	RD100SS	TD-28.5*
102,0	4.015	-	-	-	2	3		RD102SS	
114,0	4.488	-	-	-	2	2,5		RD114SS	
120,0	4.724	-	-	-	1,5	2		RD120SS	
140,0	5.512	-	-	-	1,5	2		RD140SS	

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

** Puller included in the kit*



Square punch

Hole diameter		Material max thickness (mm)		Pilot hole Ø	Type	Application Cable Entry Frames
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)	Type
(mm)	(inch)			(mm)		
21,0 x 21,0	.827 x .827	2,5	3,5	12,0	RD21X21	-
43,0 X 43,0	1.693 x 1.693	1,5	2,0	26,5	RD43X43	9000.Q/9200.Q
46,0 x 46,0	1.811 x 1.811				RD46X46	-
68,0 x 68,0	2.677 x 2.677			28,5	RD68X68	-
92,0 x 92,0	3.622 x 3.622				RD92X92	-
126,0 x 126,0	4.960 x 4.960				RD126X126	-
138,0 x 138,0	5.433 x 5.433	1,0	1,5		RD138X138	-

Rectangular punch

Hole diameter		Material max thickness (mm)		Pilot hole Ø	Type	Application Cable Entry Frames
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)	Type
(mm)	(inch)			(mm)		
18,0 x 46,0	.709 x 1.811	2,0	2,0	16,5	RD18X46	-
22,0 x 30,0	.866 x 1.181				RD22X30	-
22,0 x 46,0	.866 x 1.811				RD22X46	-
24,0 x 43,0	.945 x 1.693				RD24X43	9000.R-2
24,0 x 65,0	.945 x 2.559				RD24x65	9000.R-3
24,0 x 86,0	.945 x 3.386				RD24X86	9000.R-4
24,0 x 112,0	.945 x 4.409				RD24X112	9000.R-5/9200.R5
29,0 x 71,0	1.141 x 2.795				RD29X71	-
35,0 x 65,0	1.377 x 2.559			26,5	RD35X65	-
35,0 x 86,0	1.377 x 3.385				RD35X86	-
35,0 x 112,0	1.377 x 4.409				RD35X112	-
36,0 x 46,0	1.417 x 1.811				RD36X46	-
36,0 x 65,0	1.417 x 2.559				RD36X65	9000.10
36,0 x 86,0	1.417 x 3.386				RD36X86	9000.16
36,0 x 112,0	1.417 x 4.409				RD36X112	9000.24/9200.24 9220.24
37,0 x 54,0	1.456 x 2.125	1,5			RD37X54	-
37,0 x 67,0	1.456 x 2.637				RD37X67	-
37,0 x 88,0	1.456 x 3.464				RD37X88	-
37,0 x 104,0	1.456 x 4.094				RD37X104	-
37,0 x 115,0	1.456 x 4.527				RD37X115	-
46,0 x 54,0	1.811 x 2.126				RD46X54	-
46,0 x 65,0	1.811 x 2.559				RD46X65	9000.10
46,0 x 72,0	1.811 x 2.835				RD46X72	-
46,0 x 86,0	1811 x 3.386				RD46X86	9000.16
46,0 x 92,0	1.811 x 3.622				RD46X92	-
46,0 x 107,0	1.811 x 4.212				RD46X107	-
46,0 x 112,0	1.811 x 4.409				RD46X112	9000.24/9200.24
50,0 x 98,0	1.968 x 3.858				RD50X98	-
67,0 x 126,0	2.637 x 4.960			28,5	RD67X126	-
72,0 x 136,0	2.834 x 5.354				RD72X136	-

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

"D" punch

Hole dimensions		Material max thickness (mm)		Pilot hole Ø	Type
Nominal		Stainless Steel	Mild Steel	(mm)	KIT (Punch+die + Puller)
(mm)	(inch)				
(a)38,3 x (b)36,6	(a)1.507 x (b)1.442	2,5	3,5	18,5	RD 18D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				RD 24D

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

Use of non-CEMBRE punching accessories

Type	Punch & Die	Pilot hole Ø mm
TRD-9.4C (*)	GREENLEE 3/8" - 24 UNF	Ø 10.0
TRD-M11C (*)	BM, COSMEC (M11x1.5), IMB 9602	Ø 11.5
TD-M16C	BM, COSMEC (M16x1.5)	Ø 16.5
TD-27	BM, COSMEC (Ø105÷Ø140)	Ø 27.5
TD-14X14-M14	BM, COSMEC 46x46	Ø 18.8
TD-120X20-M20	BM, COSMEC 92x92	Ø 27.5
TD-20X20-M20 (with plug)	BM, COSMEC 42x95	Ø 27.5
TGD-13.5X13.5-M13	BM, COSMEC 40x40; 45x45; 46x46 (M13)	Ø 18.8
TGD-10X10-M9	BM, COSMEC 006505	Ø 13.8
TD-9	IMB 9601	Ø 9.5
TD-16	IMB 9603	Ø 16.5
TD-10X10-M10 (with plug)	IMB 9623	Ø 14.5
TD-14X14-M14/1"	IMB 9625	Ø 19,5
TD-20 (without plug)	IMB 9626	Ø 27.5
TD-20X20-M20-C (with plug)	IMB 9626	Ø 27.5

(*) The washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

CEMBRE

B-TD270

18.0 V CORDLESS HYDRAULIC NUT SPLITTING TOOL

Tool Type	Plug Type	Supplied Battery Charger Type
B-TD270	PLUG EU	ASC55-EU with EUROPEAN plug
B-TD270E	PLUG UK	ASC55-UK with UK plug
B-TD270A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TD270T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

general features



B-TD270	
Crimping force kN	*100*
Dimensions mm	
Length (with tube and head)	*1.292,5*
Height	*350*
Depth	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with battery)	*5,5*

18.0 V battery operated hydraulic tool suitable for splitting fastening bushes, hexagonal and square nuts with spanner from 16 to 27 mm.

11.2 tons · Li-Ion 18.0V · 2 SPEED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · BI-COMPONENT · LED LIGHTING · ENERGY SAVE · DURABLE · +5°F +122°F · CE · UKCA

B-TD410T

Tool Type	Plug Type	Supplied Battery Charger Type
B-TD410T	PLUG EU	ASC55-EU with EUROPEAN plug
B-TD410TE	PLUG UK	ASC55-UK with UK plug
B-TD410TA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TD410T-T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



B-TD410T	
Crimping force kN	*230*
Dimensions mm	
Length (with tube and head)	*1.360*
Height	*350*
Depth	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with battery)	*8,8*

18.0 V battery operated hydraulic tool suitable for splitting fastening bushes, hexagonal and square nuts with spanner from 27 to 41 mm

25.8 tons · Li-Ion 18.0V · 2 SPEED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · BI-COMPONENT · LED LIGHTING · ENERGY SAVE · DURABLE · +5°F +122°F · CE · UKCA

Application range

Type	HEXAGONAL NUTS mm	HEXAGONAL NUTS Ø	SQUARE NUTS mm	SQUARE NUTS Ø
B-TD270	16	M 10	17	M 10
	17	M 10	19	M 12
	18	M 12	22	M 14
	19	M 12	24	M 16
	21	M 14	27	M 18
	22	M 14		
	24	M 16		
	27	M 18	27	M 18
B-TD410T	27	M 18	27	M 18
	30	M 20	30	M 20
	32	M 22	32	M 22
	34	M 22	34	M 24
	36	M 24	36	M 27
	41	M 27		

STORAGE

Type	*CVB-030*
Dimensions mm L x W x H	*497 x 266 x 455*
Weight kg	*1,4*
Supplied with the tool	✓



HYDRAULIC PUMPS AND UNITS



PO7000

HYDRAULIC PUMP

foot operated



Foot operated double speed pump, developing a maximum pressure of 700 bar.
The pump is supplied with 3 m long high pressure flexible hose complete with female self-lock quick coupler.
Pressure can be withdrawn at any time during operation by depressing the release lever.
A solid shaped stand gives the pump stability during operation.

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*680*
width	*200*
Height	*163*
Weight kg	*9,8*

STORAGE

Type	*VAL-P21*
Dimensions mm L x W x H	*820 x 430 x 290*
Weight kg	*6,74*
Supplied with the pump	✓



CPP-0

HYDRAULIC PUMP

foot operated



The CPP-0 air hydraulic power unit intensifies an air supply of 5÷8 bar (73-115 psi) to a power crimping or cutting force of up to 700 bar (10.000 psi) depending upon the input pressure.
The control pedal allows for advancing and pressure release at any stage of the operation.
The unit is provided with a 2 m high pressure flexible hose, including a 3/8" NPT female self-lock quick coupler.

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*320*
width	*150*
Height	*200*
Weight kg	*6,8*

HYDRAULIC PUMP

powered by single-phase electric motor

CPE-1
CPE-1-110

2 SPEED | 700 bar | MAX PRESSURE | MANUAL RELEASE | DURABLE | CE | UKCA

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*372*
width	*223*
Height	*482*
Weight kg	*21*



The pump is supplied with:
- high pressure flexible hose with male and female automatic quick coupler
- remote hand controller
- external supply connection cable

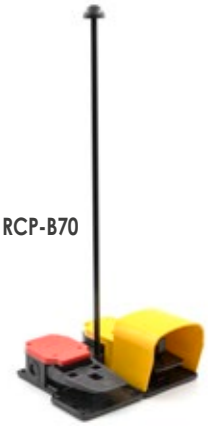
Electrically driven hydraulic pump, powered by a 230V / 50-60Hz single-phase electric motor.
The remote hand controller allows advancement and pressure release on completion of the crimping operation.
The mechanically actuated emergency button located on the pump body allows the pressure release at any time in case of power shortage.
Also available CPE-1-110 version for 110-115V / 50-60Hz.
Both models are IP 55 rated.

Available as optional accessories:
- Remote foot controller RCP-B70.
- Transportation trolley CS-CPE-1
- Control handle integrated with 3 m length flex hoses ERCH-WH

ERCH-WH



RCP-B70



CS-CPE-1



CEMBRE

B1300PL

PORTABLE ELECTRO-HYDRAULIC PUMP

battery operated

Tool Type	Plug Type	Supplied Battery Charger Type
B1300PL	PLUG EU	**ASC55-EU** with EUROPEAN plug
B1300PLE	PLUG UK	**ASC55-UK** with UK plug
B1300PLA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B1300PLT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug



New portable electro-hydraulic pump B1300PL is battery operated for independent use. Having the inherent strengths of the CEMBRE 18V tool range the B1300PL is a compact, lightweight pump suitable for a wide range of applications. New Li-Ion 18 V 5.2 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action. A security valve assures operator safety.
Designed with improved handling characteristics, B1300PL is easily manageable during the operating process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Pressure can be released at any time using the appropriate button.





TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*354*
width	*103*
Height	*240*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,0*

STORAGE

Type	*VAL-P51*
Dimensions mm L x W x H	*690 x 446 x 179*
Weight kg	*5,5*
Supplied with the pump	✓

The B1300PL pump is supplied with:

- 0,9 m flexible hose complete with male + female 3/8" NPT self-lock quick couplers.
- 18.0 V - 4.0 Ah Li-Ion high power battery
- Battery charger
- Shoulder strap
- Plastic carrying case suitable for storing the tool and accessories, type VALP51

APPLICATION RANGE

Crimping	Cutting	Punching
up to 130 kN	up to TC 050	RH-FL75 RH-FC48N

PORTABLE ELECTRO-HYDRAULIC PUMP

B68M-P18

battery operated

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*364*
width	*186*
Height	*236*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,6*

STORAGE

Type	*CVB-031*
Dimensions mm L x W x H	*620 x 300 x 320*
Weight kg	*2,4*
Supplied with the pump	✓



Tool Type	Plug Type	Supplied Battery Charger Type
B68M-P18	PLUG EU	ASC55-EU with EUROPEAN plug
B68M-P18E	PLUG UK	ASC55-UK with UK plug
B68M-P18A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B68M-P18T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



The B68M-P18 pump is supplied with:

- Remote control provides LED working lights and an OLED display
- 2 m flexible hose complete with rotatable Q14-F quick coupler on the pump and female 3/8" NPT self-lock quick couplers
- 18.0 V - 5.2 Ah Li-Ion high power battery (2 pcs.)
- Canvas bag suitable for storing the tool and accessories
- Battery charger
- Shoulder strap



New portable electro-hydraulic pump B68M-P18 is battery operated for independent use.
Having the inherent strengths of the CEMBRE 18V tool range, the B68M-P18 is a lightweight high capacity pump equipped with an innovative remote control suitable for a wide range of applications.
New Li-Ion 18V - 5.2 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.
A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.
The unit has a manual pressure release button in case of emergency. Easy access to the oil reservoir is by means of an oil top-up inlet.
The innovative remote control provides LED working lights and an OLED display of essential real time tool operating information including:

- Operating mode selection
- Release mode selection: Smart release, manual release
- Minimum set pressure and momentary pressure reached expressed in bar allows verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature

The pump features a rubber pocket to store and protect the remote control.
Low noise levels aid operator comfort while additional convenience and safety are provided by LED lighting on the remote control.
Selecting the SMART release mode on the OLED display allows the operating pressure to be maintained until the operating button is released, thus allowing the operator to make a visual check of, say, the crimped connection.

APPLICATION RANGE

Crimping	Cutting	Punching
up to 230 kN	up to TC 120	RH-FL75 RH-FC48N

Example of operating information on OLED display:


Operating mode

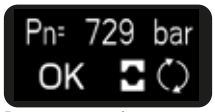


Battery level

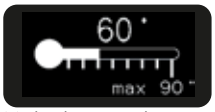

Release mode



No. of cycles



Pressure mode



Motor temperature



CEMBRE

PORTABLE ELECTRO-HYDRAULIC PUMPS B70M-P36 RANGE

battery operated

700 bar · Li-Ion 36.0V · 2 SPEED · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UK CA

SMART TECHNOLOGY RELEASE · EPS · SMARTOOL TECHNOLOGY · IP 44M EN 60529

Easily accessible oil top-up inlet



Toggle button for direct operation via the pump





Remote electrical hand or foot controller connection



High pressure hose connects to automatic self-lock quick coupling with protective cap



Automatic battery connection system





OLED multifunctional display



Smart Logo



Manual pressure release button



Pump on (constant) · In action (pulse) · End of cycle · Cycle error · Anomaly · Maintenance

New generation pumps B70M-P36 are powered by an all new 36.0V 8.0Ah Li-Ion high capacity rechargeable battery providing independence and portability.
Fitted with a maximum pressure sensor (EPS) for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator. These units feature the Smart Release system which automatically retracts the ram at the end of the operating cycle. The manual toggle button can be used to operate and release the pressure directly from the pump. (inhibited when the remote control is used for safety reasons). Oil top-up inlet for easy access to the oil reservoir.
Extremely compact and suitable for a wide range range of applications.
The CEMBRE logo acts as an indicator by changing colour to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.
The new design and ergonomic weight distribution allows the pump to be easily handled during use.

The rigid structure of the plastic body ensures adequate mechanical protection and guarantees IP44M protection due to the presence of gaskets at the interface of the body shells.
The ergonomically designed handle helps to increase operator comfort when moving the pump.
Quieter operation, and the absence of vibrations ensure maximum operator comfort. Equipped with a 3m long high pressure hose complete with a male quick coupling on the pump and a self-locking female quick coupling. The pressure can be released at any time using the pressure release button.

The unit features an OLED display to provide essential real time tool operating information including:

- Operating mode selection (cutting, crimping or piercing)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and snapshot pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operational command (hand controller or manual on the pump)



Can be used in vertical or horizontal position

PORTABLE ELECTRO-HYDRAULIC PUMP

B70M-P36

battery operated

B70M-P36

1. Portable electro-hydraulic pump, 36V battery for independent use, developing 700 bar pressure
2. CB3680L Battery 36 V - 8.0 Ah Li-Ion
3. ASC145-EU External battery charger
4. USB cable
5. Shoulder strap
6. CVB-037 Canvas rucksack for carrying accessories
7. 3 m flexible hose complete with male + female 3/8" NPT self-lock quick couplers
8. ERCH Remote control



Tool Type	Plug Type	Supplied Battery Charger Type
B70M-P36	PLUG EU	ASC55-EU with EUROPEAN plug
B70M-P36E	PLUG UK	ASC55-UK with UK plug
B70M-P36A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B70M-P36T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

APPLICATION RANGE

Crimping	Cutting	Punching
up to 600 kN	up to TC120	RH-FL75 RH-FC48N

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*405*
width	*161*
Height	*335*
Battery	*36V 6.2Ah*
Weight kg (with Battery)	*10.3**

**without accessories*

PORTABLE ELECTRO-HYDRAULIC PUMP

B70M-P36-CH

battery operated

B70M-P36-CH

1. Portable electro-hydraulic pump, 36V battery for independent use, developing 700 bar pressure
2. CB3680L Battery 36 V - 8.0 Ah Li-Ion
3. ASC145-EU External battery charger
4. USB cable
5. Shoulder strap
6. CVB-037 Canvas rucksack for carrying accessories
9. ERCH-WH Remote hand controller integrated with 3 m length flexible hose complete with male + female 3/8" NPT self-lock quick couplers



Tool Type	Plug Type	Supplied Battery Charger Type
B70M-P36-CH	PLUG EU	ASC55-EU with EUROPEAN plug
B70M-P36E-CH	PLUG UK	ASC55-UK with UK plug
B70M-P36A-CH	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

APPLICATION RANGE

Crimping	Cutting	Punching
up to 600 kN	up to TC120	RH-FL75 RH-FC48N

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*405*
width	*161*
Height	*335*
Battery	*36V 6.2Ah*
Weight kg (with Battery)	*10.3**

**without accessories*

Variously supplied with different versions:



CEMBRE

ACCESSORIES FOR B70M-P36

purchase separately

TRS-B70
Canvas rucksack
(for carrying the pump)



ERCH-WH
Remote hand controller integrated with 3 m length flexible hose





SH-B70
Hook for hanging the pump from a ladder

RCP-B70
Portable remote foot control



VAL-P18
Durable transport case for pump and accessories.



COMBINATIONS OF PUMPS AND HYDRAULIC HEADS

		HYDRAULIC PUMPS						
		PO7000	CPE1	CPP-0	B1300PL	B68M-P18	B70M-P36	B70M-P36-CH
HYDRAULIC HEADS	RH50 RHM50	✓	✓	✓	✓	✓	✓	✓
	RH60C	✓	✓	✓	✓	✓	✓	✓
	RH61	✓	✓	✓	✓	✓	✓	✓
	RHC131 RHM132	✓	✓	✓	✓	✓	✓	✓
	RHC131LN	✓	✓	✓	✓	✓	✓	✓
	RHU131	✓	✓	✓	✓	✓	✓	✓
	ECW-H3D	✓	✓	✓	-	✓	✓	✓
	RHU450	✓	✓	✓	-	-	✓	✓
	RHU520	✓	✓	✓	-	-	✓	✓
	RHU600	✓	✓	-	-	-	✓	-
	TC025	✓	✓	✓	✓	✓	✓	✓
	TC04N	✓	✓	✓	✓	✓	✓	✓
	TC050	✓	✓	✓	✓	✓	✓	✓
	TC055	✓	✓	✓	-	✓	✓	✓
	TC065SC	✓	✓	✓	-	✓	✓	✓
	TC085	✓	✓	✓	-	✓	✓	✓
	TC096	✓	✓	✓	-	✓	✓	✓
	TC120	✓	✓	✓	-	✓	✓	✓
	RH-FL75	✓	✓	✓	✓	✓	✓	✓
	RHT160 RHT160-60N	✓	✓	✓	✓	✓	✓	✓
	RHTD...	✓	✓	✓	✓	✓	✓	✓

HYDRAULIC UNIT

CP1131

pump PO7000 + head RHC131



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

TECHNICAL FEATURES

Crimping force kN	130
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	232 x 124
length flexible hose	3 m
Weight unit kg	13,6

STORAGE

Type	VAL-P21*
Dimensions mm L x W x H	820 x 430 x 290
Weight kg	6,74
Supplied with the unit	✓

*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies







HYDRAULIC UNIT

CPU1131-C

pump PO7000 + head RHU131-C



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384

TECHNICAL FEATURES

Crimping force kN	130
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	245 x 89
length flexible hose	3 m
Weight unit kg	13,5

STORAGE

Type	VAL-P21*
Dimensions mm L x W x H	820 x 430 x 290
Weight kg	6,74
Supplied with the unit	✓

*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and accessories for crimping Aluminium connectors







CEMBRE

CPU1230-3D

HYDRAULIC UNIT

pump PO7000 + head ECW-H3D

230kN | 700 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■		
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■		■						
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 368 to 384





**Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and adaptors and dies specific for head ECW-H3D*

TECHNICAL FEATURES	
Crimping force kN	*230*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*290 x 120*
Length flexible hose	*3 m*
Weight unit kg	*15,3*

STORAGE	
Type	*VAL-P21**
Dimensions mm L x W x H	*820 x 430 x 290*
Weight kg	*6,74*
Supplied with the unit	✓

CP1096

HYDRAULIC CUTTING UNIT

pump PO7000 + head TC096

Ø 95mm | 700 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE



TECHNICAL FEATURES	
Max cutting Ø mm	*95*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*397 x 249*
Length flexible hose	*3 m*
Weight unit kg	*17,7*

STORAGE	
Type	*VAL-CP096*
Dimensions mm L x W x H	*785 x 430 x 175*
Weight kg	*10,0*
Supplied with the unit	✓

CP1120

HYDRAULIC CUTTING UNIT

pump PO7000 + head TC120

Ø 120mm | 700 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE



TECHNICAL FEATURES	
Max cutting Ø mm	*120*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*536 x 175*
Length flexible hose	*3 m*
Weight unit kg	*19,3*

STORAGE	
Type	*VAL-22-TC120*
Dimensions mm L x W x H	*766 x 305 x 191*
Weight kg	*8,3*
Supplied with the unit	✓

HYDRAULIC CUTTING UNITS

CP-W-KV

according to DIN EN 50340 - VDE 0682 part 661

GS approval n. ET 23008

Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV.

Ø 85mm | Ø 95mm | Ø 120mm | 60kV | INSULATED | 625 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE

CP 1086-W-1000-KV

TECHNICAL FEATURES

Max cutting Ø mm	*85*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*405 x 143*
Length flexible hose	*10 m*
Weight unit kg	*16,6*



CP 1096-W-1000-KV

TECHNICAL FEATURES

Max cutting Ø mm	*95*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*407 x 245*
Length flexible hose	*10 m*
Weight unit kg	*19,0*



CP 1120-W-1000-KV

TECHNICAL FEATURES

Max cutting Ø mm	*120*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*556 x 185*
Length flexible hose	*10 m*
Weight unit kg	*20,2*



Available as optional accessories:

- EK100 earth cable for the pump (1 m length)
- EK500P earth cable for the head (5 m length) with earth rod and canvas bag



EK 500P



EK 100

STORAGE

Type	*VAL-CP096-W*
Dimensions mm L x W x H	*785 x 430 x 175*
Weight kg	*10,0*
Supplied with the unit	✓



CEMBRE

CP1300P-KV

PORTABLE BATTERY HYDRAULIC CUTTING UNITS

insulated



The CP1300P...-KV insulated units fit between the CP-W-KV pedal units and the B68-RC3 radio-controlled units to best meet customer needs. They are composed of 2 elements, the pump common to all cutting heads, and the heads.

The battery-powered pump for autonomous use is among the lightest on the market; powered by 18V - 8Ah lithium ion batteries, they provide high capacity while a double-speed hydraulic system guarantees rapid execution of the work cycle. The steel body guarantees longevity, the extreme compactness makes it versatile in use. The electronic system is designed to avoid running out of battery while cutting cables.

The heads are instead designed to cover the most common range of cables with 2 guillotine versions (85 and 120) and a scissor version (96). Body and blades are made of special heat-treated steel to ensure longevity and sturdiness during the cutting operation.

Pump and heads are both equipped with an earthing point to better adapt to the procedures of each individual utility.

Like all CEMBRE KV type equipment, they require the use of special dielectric oil.



CP1300P-85-KV

CP1300P-85-KV

TECHNICAL FEATURES

Max cutting Ø mm	85
Dimensions mm	
Dimensions pump L x W x H	377 x 102 x 239
Dimensions head L x H	405 x 143
Length flexible hose	10 m
Weight unit kg	11.6



CP1300P-96-KV

CP1300P-96-KV

TECHNICAL FEATURES

Max cutting Ø mm	95
Dimensions mm	
Dimensions pump L x W x H	377 x 102 x 239
Dimensions head L x H	407 x 245
Length flexible hose	10 m
Weight unit kg	14.6



CP1300P-120-KV

CP1300P-120-KV

TECHNICAL FEATURES

Max cutting Ø mm	120
Dimensions mm	
Dimensions pump L x W x H	377 x 102 x 239
Dimensions head L x H	556 x 185
Length flexible hose	10 m
Weight unit kg	15.4

The 10m high pressure hose is connected to the heads in a fixed manner while the connection to the pump is quick with a locking ring, to avoid accidental disconnection.



CVB-031

STORAGE

Type	VAL-CP096-W
Dimensions mm L x W x H	785 x 430 x 175
Weight kg	10,0
Supplied with the unit	✓





EK500P



EK100

Available as optional accessories:

- **CVB-031** Canvas bag
- **EK100** Earth cable for the pump (1 m length)
- **EK500P** Earth cable for the head (5 m length) with earth rod and canvas bag

PORTABLE BATTERY HYDRAULIC CUTTING UNITS

B68RC3

radio controlled - for remote cutting operations









Ø 85mm | Ø 95mm | Ø 120mm | 700 bar | ISOLATED | Li-Ion 18.0V | 2 SPEED | OLED | BATTERY DISPLAY | PROTECTED | MAX PRESSURE | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | DURABLE | ENERGY SAVE | 200k | -15°C +50°C | CE | UKCA

Tool Type	Plug Type	Supplied Battery Charger Type
B68RC3-85 B68RC3-96 B68RC3-120	PLUG EU	ASC55-EU with EUROPEAN plug
B68RC3-85E B68RC3-96E B68RC3-120E	PLUG UK	ASC55-UK with UK plug

The heart of each unit is the new portable pump B68M-P18-KV-RC3, battery operated for independent use. Having the inherent strengths of the CEMBRE 18V tool range, the B68M-P18-KV-RC3 is a lightweight high capacity pump equipped with an innovative radio remote control designed specifically for man-hole environments to allow operators to control and operate the pump out of the man-hole at a safe distance.
New Li-Ion 18V - 8Ah batteries provide high capacity while improved operating speed results from a revitalized hydraulic system with double speed action.
A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.
The unit is fitted with a patented unique system for stopping the pump when the cutting head sensor signals that its blades have travelled fully.
At this point the LED indicator and buzzer notify the operator of the successful completion of the cutting operation. For this reason, each pump is paired to its specific cutting head only and it must be considered as a complete unit.
The innovative remote control function is able to work in man-hole environment where radio communication is normally more complicated.
The unit features an OLED display to provide essential real time tool operating information including:

- Operating mode selection (cutting or crimping)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and momentary pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operating command (radio or manual).

Available as optional accessories:

- **CVB-031** Canvas bag
- **EK100** Earth cable for the pump (1 m length)
- **EK500P** Earth cable for the head (5 m length) with earth rod and canvas bag



CVB-031


EK500P


EK100

Supplied with:

- **Radio remote control** (2405 ÷ 2480 MHz)
- **CB1880L**, Li-Ion 18.0 V 8.0 A h Battery (2 pcs)
- **ASC55-EU**, Battery charger
- 10 m length high pressure flexible hose
- USB cable
- Shoulder strap
- **VAL-B68RC3** Metal Carring Case

B68RC3-85

TECHNICAL FEATURES

Max cutting Ø mm	85
Dimensions mm	
Dimensions pump L x W x H	417 x 236 x 212
Dimensions head L x H	409 x 174 x 140
Weight unit kg	13,68

B68RC3-96

TECHNICAL FEATURES

Max cutting Ø mm	95
Dimensions mm	
Dimensions pump L x W x H	417 x 236 x 212
Dimensions head L x H	498 x 249 x 147
Weight unit kg	17,24

B68RC3-120

TECHNICAL FEATURES

Max cutting Ø mm	120
Dimensions mm	
Dimensions pump L x W x H	417 x 236 x 212
Dimensions head L x H	536 x 223 x 140
Weight unit kg	18,44

STORAGE

Type	VAL-B68RC3
Dimensions mm L x W x H	665 x 422 x 260
Weight kg	17,4
Supplied with the unit	✓



CEMBRE

B68M-P18-KV-RC1

PORTABLE BATTERY INSULATED HYDRAULIC PUMP

radio controlled







New portable battery hydraulic pump B68M-P18-KV-RC1 is battery operated for independent use.
Extremely compact and light in weight, it is suitable for a wide range of applications.
The B68M-P18-KV-RC1 is a lightweight high capacity pump equipped with an innovative radio remote control designed specifically for man-hole environments to allow operators to control and operate the pump out of the manhole at a safe distance.
The LED indicator and buzzer notify the operator of the successful completion of the cutting or crimping operation.

The manual toggle button can be used to operate and release the pressure directly from the pump (inhibited when the remote control is used for safety reasons).
Fast compression or cutting speeds are guaranteed by a two-speed hydraulic system; it is also equipped with a pressure sensor and a safety valve, the first to guarantee greater precision and repeatability of the maximum cycle pressure, the second as a redundant safety element for the operator.
The ergonomically designed handle helps to increase operator comfort when moving the pump.

The plastic material body ensures adequate mechanical protection in all conditions of use, thanks to its rigid structure; greater safety and comfort in handling, thanks to the ergonomic handle.
It is equipped with an automatic locking female quick coupling with I38-F safety ring nut for the connection of flexible hoses with high dielectric power.
The pressure can be released at any time using the pressure release button.

The unit features an OLED display to provide essential real time tool operating information including:
- Operating mode selection (cutting or crimping)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and momentary pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operating command (radio or manual).

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*350*
width	*212*
Height	*236*
Battery	*18.0V 8.0Ah*
Weight kg (with Battery)	*6*

STORAGE

Type	*CVB-031*
Dimensions mm L x W x H	*620 x 300 x 320*
Weight kg	*2,4*
Supplied with the pump	✓

Supplied with:
- **Radio remote control** (2405 ÷ 2480 MHz)
- **CB1880L**, Li-Ion 18.0 V 8.0 A h Battery (2 pcs)
- **ASC55-EU**, Battery charger
- USB cable
- Shoulder strap
- **CVB-031** Canvas bag



CVB-031



LED indicators and buzzer



OLED multifunctional display



Automatic battery connection system



Pressure release button

PORTABLE ELECTRO-HYDRAULIC INSULATED PUMP

B1300PK-KV

battery operated

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*377*
width	*102*
Height	*239*
Battery	*18.0V 8.0Ah*
Weight kg (with Battery)	*4,0*



The B1300P-KV pump is supplied with:

- 18.0 V - 8.0 Ah Li-Ion high power battery (1 pcs)
- Battery charger
- Shoulder strap

APPLICATION RANGE

Crimping	Cutting	Punching
up to 130 kN	up to TC 050	RH-FL75 RH-FC48N

New B1300P-KV portable electro-hydraulic insulated pump powered by Li-Ion 18V - 8.0Ah battery having the same characteristics as the B1300PL version except for the insulated oil and the insulated female quick coupling with automatic locking I38-F.

The unit features an OLED display to provide essential real time tool operating information including:

- Minimum set pressure and momentary pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- CEMBRE logo, tool model and serial number.

The pump can be connected to hydraulic heads and insulated flexible hoses (supplied on request) equipped with I38 series quick coupling (see page 346)



Ergonomic shape for optimal comfort



OLED multifunctional display



Automatic battery connection system



Insulated female quick coupling with automatic locking I38-F

CEMBRE

CB BH ASC CFC BPS

Accessories for cordless tools



CB1820L



CB1852L
CB1880L



CB3662L
CB3680L



CB1430L



CB1430H



CB9630H



BH2433

battery

	Type	Description	Technology	Ah	V
STANDARD	CB1820L	CB1820L 18V-2.0Ah battery	Li-Ion	2.0	18
	CB1852L	CB1852L 18V-5.2Ah battery	Li-Ion	5.2	18
	CB1880L	CB1880L 18V-8.0Ah battery	Li-Ion	8.0	18
	CB3662L	CB3662L 36V-6.2Ah battery	Li-Ion	6.2	36
	CB3680L	CB3680L 36V-8.0Ah battery	Li-Ion	8.0	36
ON REQUEST	CB1430L	CB1430L 14.4V-3.0Ah battery	Li-Ion	3.0	14.4
	CB9630H	CB9630H 9.6V-3.0Ah battery	Ni-MH	3.0	9.6
	CB1430H	CB1430H 14.4V-3.0Ah battery	Ni-MH	3.0	14.4
	BH2433	BH2433 24V-3.3Ah battery	Ni-MH	3.3	24



ASC55-EU
ASC55-UK
ASC55-USA/CA
ASC55-AUS/NZ



ASC145-EU
ASC145-UK
ASC145-USA/CA
ASC145-AUS/NZ



ASC145DUO-EU
ASC145DUO-UK
ASC145DUO-USA/CA



ASC55-MULTI8-EU
ASC55-MULTI8-US



CFC230N
CFC120YN

battery charger

Type	Description	V
ASC55-EU / ASC55-UK / ASC55-AUS/NZ	battery charger 220-240V 50-60Hz	18
ASC55-USA/CA	battery charger 115V 60Hz	18
ASC145-EU / ASC145-UK / ASC145-AUS/NZ	battery charger 220-240V 50-60Hz	10.8 - 36
ASC145-AUS/NZ	battery charger 115V 60Hz	10.8 - 36
ASC145DUO-EU / ASC145DUO-UK	battery charger 220-240V 50-60Hz	12 - 36
ASC145DUO-USA/CA	battery charger 115V 60Hz	12 - 36
ASC55-MULTI8-EU	8 position multiple charger 220-240V 50-60Hz	12 - 36
ASC55-MULTI8-US	8 position multiple charger 110V 60Hz	12 - 36
CFC230N	battery charger 230V AC	14.4
CFC120YN	battery charger 120V AC	14.4

Battery and battery charger kit

KIT



KIT-18..EU/..

Kit

KIT Type	Description	Battery				Battery charger Type
		Type	Q.ty	Ah	V	
KIT-1820.EU/2	2 batteries + 1 battery charger	CB1820L	2	2.0	18	ASC55-EU
KIT-1820.EU/1	1 battery + 1 battery charger	CB1820L	1	2.0	18	ASC55-EU
KIT-1852.EU/2	2 batteries + 1 battery charger	CB1852L	2	5.2	18	ASC55-EU
KIT-1852.EU/1	1 battery + 1 battery charger	CB1852L	1	5.2	18	ASC55-EU
KIT-1880.EU/2	2 batteries + 1 battery charger	CB1880L	2	8.0	18	ASC55-EU
KIT-1880.EU/1	1 battery + 1 battery charger	CB1880L	1	8.0	18	ASC55-EU

Power supplies

BPS



BPS230.96



BPS230.14

power supplies

Type	Description	V
BPS230.96	BPS230.96 (230V -9.6V) power supplies	9.6
BPS230.14	BPS230.14 (230V -14.4V) power supplies	14.4

others



6000354



6006309

Type	Description
6000354	Shoulder strap for battery tools
6006309	USB2.0/MINI USB B M-M 1.8 m cable black

CEMBRE

VAL

Accessories for storage of dies


VALMAT-C/15


VALMAT


VAL-130


VALMAT-230-630


VALMAT-520


CVB-013


VAL-75

cases - bags

Tipo	Descrizione
VALMAT-C/15	Plastic carrying case suitable for the storage of 15 semicircular dies
VALMAT	Metal carrying case suitable for the storage of semicircular dies
VALMAT-230-630	Metal carrying case suitable for the storage of accessories for crimping Aluminium connectors
VALMAT-520	Metal carrying case suitable for storage of 10 sets of hexagonal dies for the head RHU520
VAL-130	Metal carrying case suitable for the storage of accessories for crimping Aluminium connectors
VAL-75	Plastic case suitable for containing tool dies for HT81-U; RHU81; RH50; RHM50
CVB-013	Canvas bag

CVB

Transport accessories


CVB-030


CVB-037


CVB-031


VAL-P18

canvas bag - trolley

Type	Description
CVB-030	Canvas bag for carrying tools and accessories
CVB-031	Canvas bag for the transport of pump and accessories
CVB-037	Canvas rucksack for transporting pump and accessories
VAL-P18	Wheeled transport case for pump and accessories

Compression Kit for 50kN and 60kN Tools

KIT-M-50
KIT-M-45

NEW



KIT-ME-50

Kit includes:

9 die sets:	
ME5-50	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² A-M family
ME7-50	
ME10-50	
ME14-50	
ME19-50	
ME24-50	
ME30-50	
ME37-50	
ME48-50	

KIT-MH-50

Kit includes:

10 die sets:	
MH16-50	Hexagonal crimp for low voltage terminals and through connectors from 16 to 240 mm² HR family
MH25-50	
MH35-50	
MH50-50	
MH70-50	
MH95-50	
MH120-50	
MH150-50	
MH185-50	
MH240-50	

KIT-MK-50/CU

Kit includes:

10 die sets:	
MK8-50	Hexagonal crimp for low voltage terminals and through connectors from 16 to 240 mm² DIN 46235 family
MK10-50	
MK12-50	
MK14-50	
MK16-50	
MK18-50	
MK20-50	
MK22-50	
MK25-50	
MK28-50	



KIT-MA/PA-50

Kit includes:

6 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 25 to 120 mm²
MA5-50	PA5-50	
MA7-50	PA10-50	
MA10-50		
MA14-50	PA19-50	
MA19-50		
MA24-50	PA24-50	



KIT-ME-45 (for HT45 and B450ND-BV)

Kit includes:

7 die sets:	
ME5	Hexagonal crimp for low voltage terminals and through connectors from 25 to 150 mm² A-M family
ME7	
ME10	
ME14	
ME19	
ME24	
ME30	



KIT-ME-60C/1

Kit includes:

11 die sets:	
ME5-60C	Hexagonal crimp for low voltage terminals and through connectors from 25 to 300 mm² A-M family
ME7-60C	
ME10-60C	
ME14-60C	
ME19-60C	
ME24-60C	
ME29-60C	
ME30-60C	
ME37-60C	
ME48-60C	
ME60-60C	

KIT-MH-60C

Kit includes:

9 die sets:	
MH25-60C	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² HR family
MH35-60C	
MH50-60C	
MH70-60C	
MH95-60C	
MH120-60C	
MH150-60C	
MH185-60C	
MH240-60C	

KIT-MK-60C/CU

Kit includes:

9 die sets:	
MK10-60C	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² DIN 46235 family
MK12-60C	
MK14-60C	
MK16-60C	
MK18-60C	
MK20-60C	
MK22-60C	
MK25-60C	
MK28-60C	

CEMBRE

NEW

Modular system

Efficient, organised, and easy-to-move transport of the entire work kit is essential for performing operations quickly and effectively.
The new VAL-M series includes an extensive selection of backpacks, bags, trolleys, and cases in various sizes and formats, all specifically designed to securely hold and transport CEMBRE's connector-matrix-head-tool systems with ease.
The design of the VAL-M transport accessories ensures key advantages in any situation: complete functionality, maximum compatibility, perfect modularity, exceptional comfort, and superior maneuverability.



Features

- Robust and simple transport solution for tools and accessories
- Easy to store
- Rotary interlock connection allows one-handed operation
- Ergonomic handle on top and front
- High quality locking mechanisms Stackable





VAL-M/S0



VAL-M/H0



VAL-M/L0



VAL-M/X0



VAL-M/KIT1



VAL-M/KIT2



VAL-M/KIT2-8
VAL-M/KIT2-48

cases - bags - trolleys

Type	Description
VAL-M/KIT1	Case for transporting connectors and accessories - dimensions 252x167xh63
VAL-M/KIT2	Case for transporting connectors and accessories - dimensions 440x346xh95
VAL-M/KIT2-8	Case with 8 compartments (modules 10x15.5 cm) for transporting connectors and accessories dimensions 440x346xh95 mm
VAL-M/KIT2-48	Case with 48 compartments (modules 5x5 cm) for transporting connectors and accessories dimensions 440x346xh95 mm
VAL-M/S0	Modular case for transporting tools and accessories - dimensions 396x296xh145
VAL-M/L0	Modular case for transporting tools and accessories - dimensions 496x296xh145
VAL-M/H0	Modular case for transporting tools and accessories - dimensions 496x296xh280
VAL-M/X0	Modular case for transporting tools and accessories - dimensions 596x396xh185
CTSB2	Modular bag for transporting tools and accessories
RPL01-M	Rollplate for VAL-M cases...



CTSB2



RPL01-M

TF

Accessories for non-insulated hydraulic pumps



TF..-..



ERCH-WH

non-insulated flexible hoses (extensions)

Type	Length m	Quick Coupler	Description
TF300-Q38FM	3	F/M	High pressure flexible hose fitted with automatic quick couplers
TF600-Q38FM	6	F/M	High pressure flexible hose fitted with automatic quick couplers
TF200-Q14FM	2	F/M	High pressure flexible hose fitted with automatic quick couplers
TF500-Q38FM	5	F/M	High pressure flexible hose fitted with automatic quick couplers
TF1000-Q38FM	10	F/M	High pressure flexible hose fitted with automatic quick couplers
ERCH-WH	3	F/M	Remote hand controller integrated with high pressure flexible hose complete with automatic quick couplers for B70M-P36; CPE-1

Q-M, Q-F

Quick couplers for non-insulated flexible hoses



Q14-MS

Q14-MS
Male automatic coupler for hydraulic heads (1/4" NPT).



Q38-F

Q38-F
Female automatic coupler with safety ring for hydraulic pumps and flexible hoses (3/8" NPT).



Q38-MS

Q38-MS
Male automatic coupler for flexible hoses (3/8" NPT).

TF-I

Accessories for insulated hydraulic pumps



TF..-I..

insulated flexible hoses (extensions)

Type	Length m	Insulated Quick Coupler	Description
TF1000-I38FM-KVE	10	F/M	10 m long high pressure flexible hose equipped with insulated oil with high dielectric power and with "insulated" type quick couplers with automatic locking, complete with case
TF500-I38FM-KV	5	F/M	5 m long high pressure flexible hose equipped with insulated oil with high dielectric power and with "insulated" type quick couplers with automatic locking

I-F, I-M

Quick couplers for insulated flexible hoses



I38-F

I38-F
Female automatic coupler with safety ring for insulated hydraulic pumps and flexible hoses (3/8" NPT).



I38-MS

I38-MS
Male automatic coupler for insulated flexible hoses (3/8" NPT).

MBS-RH

Accessory for hydraulic heads



The MBS-RH bench vice has been designed to clamp the high pressure hose via the female quick coupling and securely and stably fix the CEMBRE hydraulic heads for compression and cutting to the bench.



TECHNICAL FEATURES

Dimensions mm	
width	*80*
Height	*190*
Max. height fixing to the table	*600*
Min. height fixing to the table	*200*
Weight kg	*2,174*

DIE SELECTOR CHART



DIE SELECTOR CHART

APPLICATION	CONDUCTOR		CONNECTOR				HYDRAULIC TOOLS						
							B15MD	HT45-E B450ND-BV			HT51 RH50 B500 B500ND		
	Conductor Size sqmm		TERMINAL			SPLICE	DIE SET	NEST	INDEN-TOR	DIE SET	NEST	INDEN-TOR	DIE SET
	Low Str.	Flex											
COPPER CONDUCTORS													
 A..-M..	0,25 ÷ 2,5		A 03-M.. A 06-M..			L 03-M / L 03-P L 06-M / L 06-P	ME03/2-15 (1) MA03/3-15 (Y)						
 A..-2M..	4 ÷ 6		A 1-M.. A 1-L..			L 1-M L 1-P	ME03/2-15 (1) MA03/3-15 (Y)	MA1 (Y)	PA1	ME1 (1)	MA1-50 (Y)	PA1-50	ME1-50 (1)
 A..-L..	10		A2-M.. A2-L.. A2-P12 A2-U..	A2-2M..		L 2-M L 2-P	ME03/2-15 (1) ME2/3-15 (1) MA03/3-15 (Y)	MA2.3 (Y)	PA5	ME2 (1)	MA2.3-50 (Y)	PA5-50	ME2-50 (1)
	16		A3-M.. A3-L.. A3-P14 A3-P22R.. A3-U..	A3-2M..	2A 3-M..	L 3-M L 3-P	ME2/3-15 (1) MA03/3-15 (Y)			ME3 (1)			ME3-50 (1)
 A..-P..	25		A5-M.. A5-L.. A5-P16 A5-P22R..	A5-2M..	2A 5-M..	L 5-M L 5-P		MA5 (Y)		ME5 (1)	MA5-50 (Y)		ME5-50 (1)
 A..-PR..	35	25* 35	A 7-M.. A 7-L.. A 7-P20	A7-2M..	2A 7-M..	L 7-M L 7-P		MA7 (Y)	PA10	ME7 (1)	MA7-50 (Y)	PA10-50	ME7-50 (1)
 A..-U..	50	35* 50	A 10-M.. A 10-L.. A 10-P25	A10-2M..	2A 10-M.. 2A10-2M..	L 10-M L 10-P		MA10 (Y)		ME10 (2)	MA10-50 (Y)		ME10-50 (2)
	70	50* 70	A 14-M.. A 14-L..	A14-2M..	2A 14-M.. 2A14-2M..	L 14-M L 14-P				ME14 (2)	MA14-50 (Y)		ME14-50 (2)
			A 14-P30							ME17 (2)		PA19-50	ME17-50 (2)
 2A..-M..	95	70* 95	A 19-M.. A 19-L..	A19-2M..	2A 19-M.. 2A19-2M..	L 19-M L 19-P				ME19 (2)	MA19-50 (Y)		ME19-50 (2)
	120	95* 120	A 24-M.. A 24-L..	A24-2M..	2A 24-M.. 2A24-2M..	L 24-M L 24-P				ME24 (2)	MA24-50 (Y)	PA24-50	ME24-50 (2)
	150	120* 150	A 30-M.. A 30-L..	A30-2M..	2A 30-M.. 2A30-2M..	L 30-M L 30-P				ME30 (3)			ME30-50 (3)
 2A..-2M..	185	150* 185	A 37-M.. A 37-L.. A 37-4ESI	A37-2M..	2A 37-M.. 2A37-2M..	L 37-M L 37-P							ME37-50 (3)
	240	185* 240	A 48-M.. A 48-L.. A 48-4ESI	A48-2M..	2A 48-M.. 2A48-2M..	L 48-M L 48-P							ME48-50 (3)
 L..-M..	300	240 300	A 60-M.. A 60-L.. A 60-4ESI	A60-2M..	2A 60-M.. 2A60-2M..	L 60-M L 60-P							ME60-50** (4)
	400	300 400	A 80-M.. A 80-4ESI	A80-2M..	2A 80-M.. 2A80-2M..	L 80-M							
 L..-P..	500	400 500	A 100-M.. A 100-4ESI	A100-2M..	2A 100-M.. 2A100-2M..	L 100-M							
	630	500 630	A 120-M.. A 120-4ESI	A120-2M..	2A 120-M.. 2A120-2M..	L 120-M							
 A..-4ESI	800	630	A 160-M.. A 160-4ESI	A160-2M..	2A 160-M.. 2A160-2M..	L 160-M							
	1000	800	A 200-M..		2A 200-M.. 2A200-2M..	L 200-M							
EXTRA FLEXIBLE COPPER CONDUCTORS													
 A..-M..		35	A 9-M..					MA9 (Y)	PA10	ME9 (1)	MA9-50 (Y)	PA10-50	ME9-50 (1)
		50	A 12-M..							ME12 (2)	MA12-50 (Y)	PA 19-50	ME12-50 (2)
		70	A 17-M..							ME17 (2)	MA17-50 (Y)		ME17-50 (2)
		95	A 20-M..							ME20 (2)	MA20-50 (Y)		ME20-50 (2)
		120	A 29-M..							ME29 (3)			ME29-50 (3)
		150	A 35-M..										ME35-50 (3)
		185	A 40-M..										ME40-50 (3)

⬡ = *Hexagonal crimp (use one size up with fine stranded conductors, E.G.: 95i fine stranded use A19-.. + ME 19 or A 20-.. + ME 20)*

(Y) ⬡ = *Indent crimp* * *Contact Cembre for appropriate die set*

DIE SELECTOR CHART

HYDRAULIC TOOLS													
HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊			HT 120 and tools and heads with 130 kN crimping force			ECW-H3D			RHU 520		
DIE SET	NEST	INDEN-TOR	DIE SET	NEST	INDEN-TOR	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET
ME1-60C ①	MA1-50	PA1-50	ME1-50 ①									
ME2-60C ①	MA2.3-50	PA5-50	ME2-50 ①	MA2-C	PA10-C	ME2-C ①	Adaptor AU230-130-D with die set MA..-C and indentor PA..-C		Adaptor AU230-130-D with die set ME..-C	Adaptor AU520-130-C with die set MA..-C and indentor PA..-C		Adaptor AU 520-130 C with die set ME..-C
ME3-60C ①			ME3-50 ①	MA3-C		ME3-C ①						
ME5-60C ①	MA5-50		ME5-50 ①	MA5-C		ME5-C ①						
ME7-60C ①	MA7-50	PA10-50	ME7-50 ①	MA7-C		ME7-C ①						
ME10-60C ②	MA10-50		ME10-50 ②	MA10-C		ME10-C ①						
ME14-60C ②	MA14-50	PA19-50	ME14-50 ②	MA14-C	PA24-C	ME14-C ①						
ME17-60C ②			ME17-50 ②			ME17-C ①						
ME19-60C ②	MA19-50		ME19-50 ②	MA19-C		ME19-C ①						
ME24-60C ②	MA24-50	PA24-50	ME24-50 ②	MA24-C		ME24-C ①						
ME30-60C ③			ME30-50 ③	MA30-C	PA48-C	ME30-C ①						
ME37-60C ③			ME37-50 ③	MA37-C		ME37-C ①						
ME48-60C ③			ME48-50 ③	MA48-C		ME48-C ②						
ME60-60C ④				MA60-C	PA60-C	ME60-C ③						
						ME80-C ③	MA80-3D	PA100-3D	ME80-3D ②	MA80-520	PA120-520	ME80-520 ②
							MA100-3D		ME100-3D ②	MA100-520		ME100-520 ②
							MA120-3D	PA120-3D	ME120-3D ②	MA120-520		ME120-520 ②
										MA160-520	PA200-520	ME160-520 ②
										MA200-520		ME200-520 ②
ME9-60C ①	MA9-50	PA10-50	ME9-50 ①	MA9-C	PA10-C	ME9-C ①	Adaptor AU 230-130 D with die set MA..-C and indentor PA..-C		Adaptor AU 230-130 D with die set ME..-C	Adaptor AU520-130-C with die set MA..-C and indentor PA..-C		Adaptor AU 520-130 C with die set ME..-C
ME12-60C ②	MA12-50	PA 19-50	ME12-50 ②	MA12-C	PA24-C	ME12-C ①						
ME17-60C ②	MA17-50		ME17-50 ②	MA17-C		ME17-C ①						
ME20-60C ②	MA20-50		ME20-50 ②	MA20-C		ME20-C ①						
ME29-60C ③			ME29-50 ③	MA29-C	PA48-C	ME29-C ①						
ME35-60C ③			ME35-50 ③	MA35-C		ME35-C ①						
ME40-60C ③			ME40-50 ③	MA40-C		ME40-C ①						

N.B.: Number inside symbol indicates the number of crimps on A-M barrel

*** Only for B500, B500ND and RH50.*

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

CEMBRE

DIE SELECTOR CHART

APPLICATION	CONDUCTOR	CONNECTOR						
COPPER CONDUCTORS								
 ANE..-M..	**Conductor Size Flex sqmm**	**TERMINAL**						
	10	ANE2-M..	ANE2-P12	ANE2-U..	AN2-M..	IN2-M..	EN2-M.. ENR2-M..	
	16	ANE3-M..	ANE3-P14	ANE3-U..	AN3-M..	IN3-M..	EN3-M..	
	25	ANE5-M..	ANE5-P16		AN5-M..			
 ANE..-P..	35	ANE7-M..	ANE7-P20		AN7-M..	IN7-M..	EN7-M..	
	50	ANE10-M..			AN10-M..	IN10-M..	EN10-M.. ENR10-M..	
	70	ANE14-M..			AN14-M..	IN14-M..	EN14-M..	
 ANE..-U..	95	ANE19-M..			AN19-M..	IN19-M..	EN19-M..	
	120	ANE24-M..			AN24-M..	IN24-M..	EN24-M..	
	150	ANE30-M..			AN30-M..	IN30-M..	EN30-M..	
AN..-M.. IN..-M.. EN..-M.. 	150					IN37-M.. INR37-M..		
	185					IN48-M..	EN48-M..	
	240					IN60-M..	EN60-M..	
	300					IN80-M..	EN80-M..	
EXTRA FLEXIBLE COPPER CONDUCTORS								
 ANE..-M..	35	ANE9-M..						
	50	ANE12-M..						
	70	ANE17-M..						
	95	ANE20-M..						
	120	ANE29-M..						
	150	ANE35-M..						
COPPER CONDUCTORS								
 PK ...	**Conductor Size Flex sqmm**	**TERMINAL**						
	0,3 ÷ 4	PKD506÷PKD418	PKE508÷PKE418	PKC508÷PKC418	KE506÷KE412			
	4 ÷ 16	PKD410÷PKD1618	PKE410÷PKE1618	PKC410÷PKC1618	KE410÷KE1616			
	16	PKD16..	PKE16..	PKC16..	KE16..			
	25	PKD25..	PKE25..	PKC25..	KE25..			
KE ... 	35	PKD35..		PKC35..	KE35..			
	50	PKD50..		PKC50..				
	70			PKC70..				
	95			PKC95..				
	120			PKC120..				
	Conductor Size Flex sqmm	**TERMINAL**						
	2 x 0,5	PKT508 PKT510						
	2 x 0,75	PKT7508 PKT7510						
	2 x 1	PKT108 PKT110						
PKT ... 	2 x 1,5	PKT1508 PKT1512						
	2 x 2,5	PKT2510 PKT2512						
	2 x 4	PKT412						
	2 x 6	PKT614						
	2 x 10	PKT1014						
	2 x 16	PKT1614						

= *Indent crimp* = *Radial crimp* = *Trapezium crimp*

DIE SELECTOR CHART

HYDRAULIC TOOLS									
B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT60C RH60C B600C B600CND	HT 120 and tools and heads with 130 kN crimping force			ECW-H3D	
DIE SET		DIE SET		NEST	INDENTOR	DIE SET	NEST	INDENTOR
NN4-15		MN2RF-50		MN2-C	PN7-C	MN2RF-C	Adaptor AU230-130-D with die set MN..-C and indentor PN..-C or with die set MN..-RF-C and die set MN..F-C	
		MN3RF-50		MN3-C		MN3RF-C		
		MN5RF-50		MN5-C		MN5RF-C		
		MN7RF-50		MN7-C		MN7RF-C		
		MN10RF-50		MN10-C	PN14-C	MN10RF-C		
		MN14RF-50		MN14-C		MN14RF-C		
		MN19RF-50		MN19-C	PN24-C	MN19RF-C		
		MN24RF-50		MN24-C		MN24RF-C		
				MN30-C	PN37-C	MN30RF-C		
				MN37-C		MN37RF-C		
				MN48-C	PN48-C	MN48RF-C		
				MN60-C	PN60-C			
							MN80-3D	PN80-3D
		MN7RF-50		MN9-C	PN14-C	MN7RF-C	Adaptor AU230-130-D with die set MN..-C and indentor PN..-C or with die set MN..-RF-C and die set MN..F-C	
		MN12F-50		MN12-C		MN12F-C		
		MN17F-50		MN17-C	PN24-C	MN17F-C		
		MN20F-50		MN20-C		MN20F-C		
				MN29-C	PN37-C	MN29F-C		
				MN35-C		MN35F-C		

DIE SET		DIE SET				
KE4-15			MTT6-60C			
KE16-15			MTT10-60C			
KE35-15		MTT16-50	MTT16-60C			
		MTT25-50	MTT25-60C			
		MTT35-50	MTT35-60C			
		MTT50-50	MTT50-60C			
		MTT70-50	MTT70-60C			
		MTT95-50	MTT95-60C			
		MTT120-50	MTT120-60C			

DIE SET	COMP. APERTURE		DIE SET				
KE4-15	1						
	1,5						
	2,5						
	2,5						
KE4-15 KE16-15	4						
KE16-15	6						
	10						
KE16-15 KE35-15	16		MTT16-50				
KE35-15	35		MTT35-50				

CEMBRE

APPLICATION	CONDUCTOR		CONNECTOR		HYDRAULIC TOOLS						
					HT45-E B450ND-BV	HT51 RH50 B500E B500ND	HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
TAP-OFF ON COPPER CONDUCTOR		Conductor Size sqmm	CONNECTOR	CONNECTOR	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
		Run / Tap									
C..-C..ST		6 ÷ 2,5 / 6 ÷ 1,5	C6-C6ST	C6-C6	MC6 (1)	MC6-50 (1)		MC6-50 (1)			
		10 / 10 ÷ 1,5	C10-C10ST	C10-C10	MC10 (1)	MC10-50 (1)		MC10-50 (1)	MC10-C (1)	Adaptor AU230-130-D with die set MC..-C	Adaptor AU520-130-C with die set MC..-C
		16 / 16 ÷ 1,5	C16-C16ST	C16-C16	MC25 (2)	MC25-50 (2)		MC25-50 (2)	MC25-C (1)		
		25 ÷ 16 / 10 ÷ 1,5	C25-C10ST	C25-C10							
		25 / 25 ÷ 16	C25-C25ST	C25-C25							
		40 ÷ 35 / 16 ÷ 1,5	C35-C16ST	C35-C16	MC35 (2)	MC35-50 (2)		MC35-50 (2)	MC35-C (1)		
		40 ÷ 35 / 40 ÷ 25	C35-C35ST	C35-C35							
		50 / 25 ÷ 10									
		70 ÷ 63 / 25 ÷ 1,5	C70-C25NST	C70-C25N							
C..-C..		50 / 25 ÷ 4	C50-C25ST	C50-C25	*MC70-50 (3)			*MC70-50 (3)	MC70-C (3)	MC70-3D (1)	
		*50 / 50 ÷ 35	C50-C50ST	C50-C50							
		*70 ÷ 50 / 40 ÷ 4	C70-C35ST	C70-C35							
		*70 ÷ 50 / 70 ÷ 35	C70-C70ST	C70-C70							
		100 ÷ 95 / 40 ÷ 4	C95-C35ST	C95-C35					MC95-C (3)	MC95-3D (1)	
		100 ÷ 95 / 70 ÷ 40	C95-C70ST	C95-C70							
		100 ÷ 95 / 100 ÷ 63	C95-C95ST	C95-C95							
		125 ÷ 110 / 125 ÷ 25	C120-C120ST	C120-C120					MC185-C (3)	MC185-3D (1)	
		160 ÷ 150 / 125 ÷ 25	C150-C120ST	C150-C120							
		125 / 125									
		150 / 150 ÷ 63	C150-C150ST	C150-C150							
		125 / 125									
		185 / 100 ÷ 16	C185-C95ST	C185-C95							
		185 ÷ 120 / 185 ÷ 120	C185-C185ST	C185-C185						MC240-3D (1)	
		240 ÷ 150 / 120 ÷ 95	C240-C120ST	C240-C120							
COPPER CONDUCTORS		Conductor Size sqmm	CONNECTOR	CONNECTOR					DIE SET	DIE SET	DIE SET
		Run / Tap									
H..-H..		70 / 70	H70-H70	H70-H70ST					MRH26-C (1)	Adaptor AU230-130-D with die set MRH..-C	Adaptor AU520-130-C with die set MRH..-C
		95 / 95	H95-H95	H95-H95ST					MRH30-C (1)		
		120 / 120	H120-H120	H120-H120ST					MRH32L-C (1)		
DK..-M..		Cond. Size sqmm	CONNECTOR	CONNECTOR					DIE SET	DIE SET	DIE SET
		2 x 50	DK50-M12						MRD22-C (2)	Adaptor AU230-130-D with die set MRD..-C	Adaptor AU520-130-C with die set MRD..-C
		2 x 70	DK70-M12	DK70-2M12-51AS					MRD24-C (2)		
		2 x 95	DK95 -M12	DK95-2M12-51AS					MRD29-C (2)		
		2 x 120	DK120-M12	DK120-2M12-51AS					MRD32-C (2)		
DR..-2M12-51AS		Cond. Size sqmm	CONNECTOR	CONNECTOR	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
		70	DR70-2M12-51AS		MK16 (3)	MK16-50 (3)	MK16-60C (3)	MK16-50 (3)	MK16-C (1)	MK16-3D (2)	Adaptor AU520-130-C with die set MK..-C
		95	DR95-2M12-51AS		MK18 (4)	MK18-50 (4)	MK18-60C (4)	MK18-50 (4)	MK18-C (2)	MK18-3D (2)	
		120	DR120-2M12-51AS		MK20 (4)	MK20-50 (4)	MK20-60C (4)	MK20-50 (4)	MK20-C (2)	MK20-3D (2)	

⬡ = Hexagonal crimp ⬭ = oval crimp ◯ = circular crimp *When using die set type MC70-50, the conductors marked with a star must be annealed. ◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

H.V. COPPER CONDUCTORS

APPLICATION	CONDUCTOR		CONNECTOR			HYDRAULIC TOOLS					
						HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
	Cond. Size sqmm	TERMINAL		TERMINAL			DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
MT..-TD MT..-GC	25 R	MT25-TD	MT25-GC	CA25-M..	CA25-2M..	MT25-C..		MMT25-50 ◯	MMT25-U ◯	MMT25-C ◯	Adaptor **AU230-130-D** with die set **MMT..-C**	Adaptor **AU520-130-C** with die set **MMT..-C**
	35 RC/S ÷ 40 S	MT40S-TD	MT40S-GC	CA40S-M..	CA40S-2M..	MT40S-C..		MMT50-50 ◯	MMT50-U ◯	MMT50-C ◯		
	50 RC	MT50R-TD	MT50R-GC	CA50R-M..	CA50R-2M..	MT50R-C..						
	50 S	MT50S-TD	MT50S-GC	CA50S-M..	CA50S-2M..	MT50S-C..						
	63 S ÷ 70 S	MT70S-TD	MT70S-GC	CA70S-M..	CA70S-2M..	MT70S-C..		MMT95-50 ◯	MMT95-U ◯	MMT95-C ◯		
	80 S ÷ 95 RC	MT95R-TD	MT95R-GC	CA95R-M..	CA95R-2M..	MT95R-C..						
	95 S ÷ 100 S	MT95S-TD	MT95S-GC	CA95S-M..	CA95S-2M..	MT95S-C..						
CA..-M.. CA..-2M..	120 RC/S ÷ 150 RC	MT150R-TD	MT150R-GC	CA150R-M..	CA150R-2M..	MT150R-C..		MMT200-50 ◯	MMT200-U ◯	MMT200-C ◯		
	150 S ÷ 160 RC	MT150S-TD	MT150S-GC	CA150S-M..	CA150S-2M..	MT150S-C..						
	160 S ÷ 200 RC	MT200R-TD	MT200R-GC	CA200R-M..	CA200R-2M..	MT200R-C..						
	185 BR/BS	MT185-TD	MT185-GC	CA185-M..	CA185-2M..	MT185-C..						
	200 S ÷ 240 RC	MT240R-TD	MT240R-GC	CA240R-M..	CA240R-2M..	MT240R-C..				MMT315-C ◯		
	240 S ÷ 315 RC	MT315R-TD	MT315R-GC	CA315R-M..	CA315R-2M..	MT315R-C..						
MT..-C..	315 S	MT315S-TD	MT315S-GC	CA315S-M..	CA315S-2M..	MT315S-C..						
	400 R	MT400-TD		2A80-M..	2A80-2M..					ME80-C ⬡	ME80-3D ⬡	ME80-520 ⬡
	500 R	MT500-TD		2A100-M..	2A100-2M..						ME100-3D ⬡	ME100-520 ⬡
	600 R ÷ 630 R	MT630-TD		2A120-M..	2A120-2M..						ME120-3D ⬡	ME120-520 ⬡

ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR		HYDRAULIC TOOLS			
				HT 131-UC RHU 131-C B1350-UCE B1300-UCE			
	Conductor Size sqmm	LUGS		DIE HOLDER	DIE		INDENTOR
CAA..-M..	10	CAA10-M..		AU130-150	MV35 ⋁	MUA35 ⋁	PS130-35/E
	16	CAA16-M..	MTA16-C				
	25	CAA25-M..	MTA25-C				
	35	CAA35-M..	MTA35-C				
	50	CAA50-M..	MTA50-C		MV95 ⋁	MUA95 ⋁	PS130-95/E
	70	CAA70-M..	MTA70-C..				
	95	CAA95-M..	MTA95-C..				
MTA..-C	120	CAA120-M..	MTA120-C..				
	150	CAA150-M..	MTA150-C..		MV150 ⋁	MUA150 ⋁	PS130-150/E
	185	CAA185-M..	MTA185-C..	AU130-240	MV240 ⋁	MUA240 ⋁	PS130-240/E
	240	CAA240-M..	MTA240-C..				
	300	CAA300-34M..			MUA300-34 ⋁		
	Conductor Size sqmm	LUGS		DIE HOLDER	DIE		INDENTOR
	16	AA16-M..		AU130-150	MUA35 ⋁		PS130-35/E
	25	AA25-M..					
	35	AA35-M..					
	50	AA50-M..			MUA95 ⋁		PS130-95/E
	70	AA70-M..					
	95	AA95-M..					
	120	AA120-M..			MUA150 ⋁		PS130-150/E
AA..-M..	150	AA150-M..					
	185	AA185-M..		AU130-240	MUA240 ⋁		PS130-240/E
	240	AA240-M..					
	300	AA300-34M..			MUA300-34 ⋁		

⋁ = Deep indent crimp ⬡ = Hexagonal crimp ◯ = circular crimp

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

ALUMINIUM CONDUCTORS



MTMA..-..GC

Conductor Size sqmm	SPLICE		Conductor Size sqmm Al	Conductor Size sqmm Al/Cu	SPLICES	HYDRAULIC TOOLS HT 131-UC RHU 131-C B1350-UC B1300-UC		
						DIE HOLDER	DIE	INDENTOR
10	MTMA10-GC					AU130-150	MVM35 ⏦ / MUA35 ⏦	PS130-35/E
16	MTMA16-GC	MTMA16/1	16	10	MTMA16-10GC			
25	MTMA25-GC	MTMA25/1	25	10	MTMA25-10GC			
			25	16	MTMA25-16GC			
35	MTMA35-GC	MTMA35/1						
50	MTMA50-GC	MTMA50/1	50	25	MTMA50-25GC		MVM95 ⏦ / MUA95 ⏦	PS 130-95/E
			50	35	MTMA50-35GC			
70	MTMA70-GC	MTMA70/1	70	35	MTMA70-35GC			
			70	50	MTMA70-50GC			
95	MTMA95-GC	MTMA95/1	95	50	MTMA95-50GC			
			95	70	MTMA95-70GC			
120	MTMA120-GC	MTMA120/1	120	70	MTMA120-70GC		MVM150 ⏦ / MUA150 ⏦	PS130-150/E
			120	95	MTMA120-95GC			
150	MTMA150-GC	MTMA150/1	150	70	MTMA150-70GC			
			150	95	MTMA150-95GC			
			150	120	MTMA150-120GC			
185	MTMA185-GC	MTMA185/1	185	120	MTMA185-120GC	AU130-240	MVM240 ⏦ / MUA240 ⏦	PS130-240/E
			185	150	MTMA185-150GC			
240	MTMA240-GC	MTMA240/1	240	150	MTMA240-150GC			
			240	185	MTMA240-185GC			
300	MTMAD300-GC	MTMAD300/1	300	185	MTMAD 300-185 GC		MUA 300-34 ⏦	
			300	240	MTMAD 300-240 GC			

⏦ = *Deep indent crimp*

PRE-ROUNDERS SELECTION

ALUMINIUM CONDUCTOR SIZE sqmm	PRE-ROUNDER	DIE-SUPPORT
25	UP 130-25	AC 130-P
35	UP 130-35	
50	UP 130-50	
70	UP 130-70	
95	UP 130-95	
120	UP 130-120	
150	UP 130-150	
185	UP 130-185	
240	UP 130-240	

DIES DESCRIPTION

1) AU 130-.. DIE-HOLDER
Used to house dies and pre-rounders.

2) UP 130-.. PRE-ROUNDERS
Used to round aluminium sectoral conductors in order to introduce them into circular connectors. Each pre-rounder is made of two parts: the upper part is housed in die-holder AU 130-.. and the lower part is locked onto AC 130-P.. die support.

3) AC 130-P.. DIE SUPPORT
Houses lower part of pre-rounder UP 130-..

4) MUA... DIES
Containing dies.

5) PS 130-../E INDENTORS
Such indentors are specifically engineered for deep indentation of aluminium conductors of any stranding configuration.

DIES SEQUENCE

CONDUCTOR ROUNDING



CRIMPING



ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR				HYDRAULIC TOOLS							
						HT 120 and tools and heads with 130 kN crimping force	HT131-UC RHU131-C B1350-UC B1300-UC			ECW-H3D	RHU230-630		
	Conductor Size sqmm	LUGS				HEXAGONAL CRIMP	INDENT CRIMP			HEXAGONAL CRIMP	INDENT CRIMP		
						DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
 CAA..-M..	300	CAA300-34-M..				MK34L-C ⬡	AU130-240	MUA300-34 ⋓	PS130-240/E	MK34-3D ⬡			
	300	CAA300-M16								MK38-3D ⬡	AU230-630	MV230-400-MC5E ⋓	PS230-400-5E
	400	CAA400-M16											
	500	CAA500-M16TNBD											
	630	CAA630-4M8								MK46-3D ⬡		MV230-630-MC6E ⋓	PS230-630-6E
	Conductor Size sqmm	LUGS				DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
 AA..-M..	300	AA300-34-M..				MK34L-C ⬡	AU130-240	MUA300-34 ⋓	PS130-240/E	MK34-3D ⬡			
	300	AA300-M16								MK38-3D ⬡	AU230-630	MUA230-630-400 ⋓	PS230-400-5E
	400	AA400-M16											
	500	AA500-40-M16											
	630	AA630-M16								MK46-3D ⬡		MUA230-630-630 ⋓	PS230-630-6E
	Conductor Size sqmm	SPLICES	Conductor Size sqmm Al	Conductor Size sqmm Al/Cu	SPLICE	DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
	300	MTMAD300/1	300	95	MTMAD300-95-GC	MK34L-C ⬡	AU130-240	MUA300-34 ⋓	PS130-240/E	MK34-3D ⬡			
				150	MTMAD300-150-GC								
		MTMAD300-GC		185	MTMAD300-185-GC								
 MTMA..				240	MTMAD300-240-GC								
	300	MTMA300-GC								MK38-3D ⬡	AU230-630	MVM230-400-MJ5E ⋓	PS230-400-5E
	400	MTMA400/1	400	240	MTMA400-240-GC								
				300	MTMA400-300-GC								
	500	MTMA500-40/1											
	500	MTMA500-GC	500	300	MTMA500-300-GC					MK46-3D ⬡		MVM230-630-MJ6E ⋓	PS230-630-6E
				400	MTMA500-400-GC								
	630	MTMA630/1											

ALUMINIUM CONDUCTORS

	CONDUCTOR	CONNECTOR	HYDRAULIC TOOLS
 AAC150-M10			HT51 RH50 B500 B500ND
	Conductor Size sqmm	LUGS	DIE SET
 AA150S-2M12/29ST	150	AAC150-M10	MAA150-50 ⬡
		AA150S-2M12/29ST	

⋓ = *Deep indent crimp* ⬡ = *Hexagonal crimp*

CEMBRE

ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	ALUMINUM CONNECTORS AND BIMETALLIC (Al - Cu)				HYDRAULIC TOOLS						
						HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
	Conductor Size sqmm	LUGS	LUGS	LUGS	SPLICE	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET
CAA..-M..	10	CAA10-M..			MTMA10-..	MK16B ⬡4	MK16B-50 ⬡4	MK16B-50 ⬡4	MK16-C ⬡3	Adaptor AU230-130D with die set MK...-C	Adaptor AU450-130D with die set MK...-C	Adaptor AU520-130C with die set MK...-C
	16	CAA16-M..	MTA16-C	AA16-M..	MTMA16-..							
	25	CAA25-M..	MTA25-C	AA25-M..	MTMA25-..							
	35	CAA35-M..	MTA35-C	AA35-M..	MTMA35-..							
MTA..-C	35	CAA35-20-M..	MTA35-20-C14-60		MTMA35-20-..	MK20 ⬡6	MK20B-50 ⬡4	MK20B-50 ⬡4	MK20-C ⬡3			
	50	CAA50-M..	MTA50-C	AA50-M..	MTMA50-..							
	70	CAA70-M..	MTA70-C..	AA70-M..	MTMA70-..							
	95	CAA95-M..	MTA95-C..	AA95-M..	MTMA95-..							
AA..-M..	120	CAA120-M..	MTA120-C..	AA120-M..	MTMA120-..		MK25B-50 ⬡4	MK25B-50 ⬡4	MK25-C ⬡3			
	150	CAA150-M..	MTA150-C..	AA150-M..	MTMA150-..							
	185	CAA185-M..	MTA185-C..	AA185-M..	MTMA185-..		MK32B-50 ⬡6	MK32B-50 ⬡6	MK32L-C ⬡3			
	240	CAA240-M..	MTA240-C..	AA240-M..	MTMA240-..							
MTMA..	300	CAA300-34-M..		AA300-34M..	MTMAD300..				MK34L-C ⬡3	MK34-3D ⬡3	MK34-450 ⬡3	MK34-520 ⬡3
	300	CAA300-M..		AA300-M..	MTMA300-..					MK38-3D ⬡4	MK38-450 ⬡4	MK38-520 ⬡4
	400	CAA400-M..		AA400-M16	MTMA400-..							
	500	CAA500-M16TNBD		AA500-40M16	MTMA500-40/1							
	500				MTMA500-GC					MK46-3D ⬡3	MK46-450 ⬡3	MK46-520 ⬡3
	630	CAA630-4M8		AA630-M16	MTMA630-GC							

⬡ = Hexagonal crimp

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

	APPLICATION	CONDUCTOR	BIMETALLIC CONNECTORS (Al - Cu)		HYDRAULIC TOOLS					
					HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU230-630
ALUMINIUM CONDUCTORS	 CBMC..-M..	Conductor Size sqmm	LUGS		HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET
		35	CBMC35-M..		M140 ⬡2	M140/9-50 ⬡2	M140/9-50 ⬡2	M140/2X9-C ⬡1	Adaptor **AU230-130D** with die set **M...-C**	Adaptor **AU 230-130 C/N** and **AU 230-PS/E** with die set **M..-C**
		50	CBMC50-M..		M140 ⬡2	M140/9-50 ⬡2	M140/9-50 ⬡2	M140/2X9-C ⬡1		
		70	CBMC70-M1..		M173 ⬡2	M173/9-50 ⬡2	M173/9-50 ⬡2	M173/2X9-C ⬡1		
		95	CBMC95-M..		M173 ⬡2	M173/9-50 ⬡2	M173/9-50 ⬡2	M173/2X9-C ⬡1		
		120	CBMC120-M..		M173 ⬡2	M173/9-50 ⬡2	M173/9-50 ⬡2	M173/2X9-C ⬡1		
		150	CBMC150-M..			M235/9-50 ⬡2	M235/9-50 ⬡2	M235/2X9-C ⬡1		
		185	CBMC185-M..			M235/9-50 ⬡2	M235/9-50 ⬡2	M235/2X9-C ⬡1		
		240	CBMC240-M..			M235/9-50 ⬡2	M235/9-50 ⬡2	M235/2X9-C ⬡1		
		300	CBMC300-M..			M260/9-50 ⬡2	M260/9-50 ⬡2	M260/9-C ⬡2		

⬡ = *Hexagonal crimp*

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

APPLICATION	CONDUCTOR	CONNECTOR			HYDRAULIC TOOLS								
					B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force		ECW-H3D	RHU520
		LUGS		SPLICES	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	NEST	INDENTOR	DIE SET	DIE SET
DIN 46234	6÷10	Q10-..					MQ10-50 (Y)	MQ10-60C (Y)	MQ10-50 (Y)	MQM10-C (Y)	MQS16-C	Adaptor **AU230-130-D** with die set **MQ...**	Adaptor **AU520-130-C** with die set **MQ...**
	10÷16	Q16-..					MQ16-50 (Y)	MQ16-60C (Y)	MQ16-50 (Y)	MQM16-C (Y)			
	16÷25	Q25-..					MQ25-50 (Y)	MQ25-60C (Y)	MQ25-50 (Y)	MQM25-C (Y)	MQS-35-C		
	25÷35	Q35-..					MQ35-50 (Y)	MQ35-60C (Y)	MQ35-50 (Y)	MQM35-C (Y)			
	35÷50	Q50-..					MQ50-50 (Y)	MQ50-60C (Y)	MQ50-50 (Y)	MQM50-C (Y)	MQS70-C		
	50÷70	Q70-..					MQ70-50 (Y)	MQ70-60C (Y)	MQ70-50 (Y)	MQM70-C (Y)			
	70÷95	Q95-..						MQ95-60C (Y)		MQM95-C (Y)	MQS150-C		
	95÷120	Q120-..						MQ120-60C (Y)		MQM120-C (Y)			
	120÷150	Q150-..								MQM150-C (Y)			
	150÷185	Q185-..								MQM185-C (Y)	MQS240-C		
	185÷240	Q240-..								MQM240-C (Y)			
DIN 46235 - 46267 T.1	6	DR6-..N		DSV6	MK5/8-15 (1)	MK5 (1)	MK5-50 (1)	MK5-60C (2)	MK5-50 (1)	MK5-C (1)		Adaptor **AU230-130-D** with die set **MK..-C**	Adaptor **AU520-130-C** with die set **MK..-C**
	10	DR10-..N		DSV10		MK6 (1)	MK6-50 (2)	MK6-60C (2)	MK6-50 (2)	MK6-C (1)			
	16	DR16-..N		DSV16		MK8 (2)	MK8-50 (2)	MK8-60C (2)	MK8-50 (2)	MK8-C (1)			
	25	DR25-..N		DSV25		MK10 (2)	MK10-50 (2)	MK10-60C (2)	MK10-50 (2)	MK10-C (1)			
	35	DR35-..N		DSV35		MK12 (2)	MK12-50 (2)	MK12-60C (2)	MK12-50 (2)	MK12-C (1)			
	50	DR50-..N		DSV50		MK14 (3)	MK14-50 (3)	MK14-60C (3)	MK14-50 (3)	MK14-C (1)		MK14-3D (2)	
	70	DR70-..N		DSV70		MK16 (3)	MK16-50 (3)	MK16-60C (3)	MK16-50 (3)	MK16-C (1)		MK16-3D (2)	
	95	DR95-..N		DSV95		MK18 (4)	MK18-50 (4)	MK18-60C (4)	MK18-50 (4)	MK18-C (2)		MK18-3D (2)	
	120	DR120-..N		DSV120		MK20 (4)	MK20-50 (4)	MK20-60C (4)	MK20-50 (4)	MK20-C (2)		MK20-3D (2)	
	150	DR150-..N		DSV150		MK22L (4)	MK22-50 (4)	MK22-60C (4)	MK22-50 (4)	MK22-C (2)		MK22-3D (2)	
	185	DR185-..N		DSV185			MK25-50 (4)	MK25-60C (4)	MK25-50 (4)	MK25-C (2)		MK25-3D (2)	
	240	DR240-..N		DSV240			MK28-50 (5)	MK28-60C (5)	MK28-50 (5)	MK28-C (2)		MK28-3D (2)	
	300	DR300-..N		DSV300			MK32-50* (5)	MK32-60C (5)		MK32-C (5)		MK32-3D (2)	
	400	DR400-..N		DSV400								MK38-3D (3)	MK38-520 (3)
	500	DR500-..N		DSV500								MK42-3D (3)	MK42-520 (3)
	625	DR625-..N		DSV625								MK44-3D (3)	MK44-520 (3)
	800	DR800-..N		DSV800									MK52-520 (3)
	1000	DR1000-..N		DSV1000									MK58-520 (3)
COPPER CONDUCTORS	6	HR6-..N	HRS6-..N	HSV6			MH6-50 (1)	MH6-60C (1)	MH6-50 (1)				
	10	HR10-..N	HRS10-..N	HSV10	MH10/16/15 (1)	MH10 (1)	MH10-50 (1)	MH10-60C (1)	MH10-50 (1)	MH10-C (1)		Adaptor **AU230-130-D** with die set **MH..-C**	Adaptor **AU520-130-C** with die set **MH..-C**
	16	HR16-..N	HRS16-..N	HSV16		MH16 (1)	MH16-50 (1)	MH16-60C (1)	MH16-50 (1)	MH16-C (1)			
	25	HR25-..N	HRS25-..N	HSV25		MH25 (1)	MH25-50 (2)	MH25-60C (2)	MH25-50 (2)	MH25-C (1)			
	35	HR35-..N	HRS35-..N	HSV35		MH35 (1)	MH35-50 (2)	MH35-60C (2)	MH35-50 (2)	MH35-C (1)			
	50	HR50-..N	HRS50-..N	HSV50		MH50 (2)	MH50-50 (2)	MH50-60C (2)	MH50-50 (2)	MH50-C (1)		MH50-3D (1)	
	70	HR70-..N	HRS70-..N	HSV70		MH70 (2)	MH70-50 (2)	MH70-60C (2)	MH70-50 (2)	MH70-C (1)		MH70-3D (1)	
	95	HR95-..N	HRS95-..N	HSV95		MH95 (3)	MH95-50 (2)	MH95-60C (2)	MH95-50 (2)	MH95-C (1)		MH95-3D (1)	
	120	HR120-..N	HRS120-..N	HSV120		MH120 (3)	MH120-50 (2)	MH120-60C (2)	MH120-50 (2)	MH120-C (1)		MH120-3D (1)	
	150	HR150-..N	HRS150-..N	HSV150		MH150 (4)	MH150-50 (2)	MH150-60C (2)	MH150-50 (2)	MH150-C (1)		MH150-3D (1)	
	185	HR185-..N	HRS185-..N	HSV185			MH185-50 (2)	MH185-60C (2)	MH185-50 (2)	MH185-C (1)		MH185-3D (2)	
	240	HR240-..N	HRS240-..N	HSV240			MH240-50 (4)	MH240-60C (4)	MH240-50 (4)	MH240-C (2)		MH240-3D (2)	
	300	HR300-..N	HRS300-..N	HSV300			MH300-50* (4)	MH300-60C (4)		MH300-C (2)		MH300-3D (2)	
	400									MH400-C (3)		MH400-3D (2)	
	500											MH500-3D (2)	
	630											MH630-3D (2)	

Q..

DR-..N

DSV..

HR-..N
HRS-..N
HR-..LN
HR-../45N

HSV..

(Y) = Indent crimp (1) = Hexagonal crimp

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

NB: for through connectors this is the number of crimps per conductor * Only for B500, B500ND and RH50

COPPER CONDUCTORS

APPLICATION	CONDUCTOR			CONNECTOR			HYDRAULIC TOOLS							
							B15MD	HT51 RH50 B500 B500ND		HT 120 and tools and heads with 130 kN crimping force		ECW-H3D	RHU520	
	Conductor Size sqmm	Conductor Size AWG	Conductor Size Navy	LUGS		SPLICE	DIE SET		DIE SET		DIE SET	DIE SET	DIE SET	
C..-.. 	10	8	23	C8-..	CL8-..	BSCL8	ME03/2-15 (1) ME2/3-15 (1) MA03/3-15 (1)		MY2-50 (1)		MY2-C (1)	Adaptor **AU230-130-D** with die set **MY..-C**	Adaptor **AU520-130-C** with die set **MY..-C**	
	16	6		C6-..	CL6-..	BSCL6	ME2/3-15 (1) MA03/3-15 (1)		MY3-50 (1)		MY3-C (1)			
CL..-.. 	25	4	40	C4-..	CL4-..	BSCL4			MY4-50 (1)		MY4-C (1)			
		3	50	C3-..	CL3-..	BSCL3			MY5-50 (1)		MY5-C (1)			
	35	2	60	C2-..	CL2-..	BSCL2			MY6-50 (1)		MY6-C (1)			
		1	75	C1-..	CL1-..	BSCL1			MY7-50 (1)		MY7-C (1)			
	50	1/0	100	C1/0..	CL1/0..	BSCL1/0			MY10-50 (2)		MY10-C (1)			
	70	2/0	125	C2/0..	CL2/0..	BSCL2/0			MY14-50 (2)		MY14-C (1)			
CL..-.. 	95	3/0	150	C3/0..	CL3/0..	BSCL3/0			MY16-50 (2)		MY16-C (1)			
		4/0	200	C4/0..	CL4/0..	BSCL4/0			MY19-50 (2)		MY19-C (1)			
	120	250 MCM	250	C250-..	CL250-..	BSCL250			MY24-50 (2)		MY24-C (1)			
	150	300 MCM	300	C300-..	CL300-..	BSCL300			MY30-50 (2)		MY30-C (1)			
	185	350 MCM	350	C350-..	CL350-..	BSCL350			MY36-50 (2)		MY36-C (1)			
BSCL.. 		400 MCM	400	C400-..	CL400-..	BSCL400			MY37-50 (2)		MY37-C (1)			
	240	500 MCM		C500-..	CL500-..	BSCL500			MY48-50 (3)		MY48-C (2)			
	300	600 MCM		C600-..	CL600-..	BSCL600					MY60-C (2)			
		750 MCM		C750-..	CL750-..	BSCL750					MY76-C (2)			

○ = *Circular crimp* ⌓ = *Indent crimp* ⬡ = *Hexagonal crimp*

N.B.: Number inside symbol indicates the number of crimps for C short barrel lugs only.

COPPER CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR		HYDRAULIC TOOLS						HYDRAULIC TOOLS										
				B15MD	HT45-E B450ND-BV			HT51 RH50 B500 B500ND		HT60C RH60C B600C B600CND TN60C	HT81-UD RHU81-D ◊			HT 120 and tools and heads with 130 kN crimping force			ECW-H3D			RHU520		
	Conductor Size sqmm	TERMINAL	SPLICE	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET
T..-M..	4 ÷ 6	T6-M.. T6-L..	L6-T..	MS4/10-15 (1)	MA1	PA1	MS6 (1)	MA1-50	PA1-50	MS6-50 (1)	MS6-60C (1)	MA1-50	PA1-50	MS6-50 (1)			MS6-C (1)						
	10	T10-M.. T10-L..	L10-T..	MS4/10-15 MS10/16-15 (1)	MA2.3	PA5	MS10 (1)	MA2.3-50	PA5-50	MS10-50 (1)	MS10-60C (1)	MA2.3-50	PA5-50	MS10-50 (1)	MA2-C	PA10-C	MS10-C (1)	Adaptor AU230-130-D with die set MA..-C and indentor PA..-C		Adaptor AU230-130-D with die set MS..-C	Adaptor AU520-130-C with die set MA..-C and indentor PA..-C		Adaptor AU520-130-C with die set MS..-C
	16	T16-M.. T16-L..	L16-T..	MS10/16-15 (1)			MS16 (1)			MS16-50 (1)	MS16-60C (1)			MS16-50 (1)	MA3-C		MS16-C (1)						
	25	T25-M.. T25-L..	L25-T..		MA5		MS25 (1)	MA5-50		MS25-50 (1)	MS25-60C (1)	MA5-50		MS25-50 (1)	MA5-C		MS25-C (1)						
L..-T	35	T35-M.. T35-L..	L35-T..		MA7	PA10	MS35 (2)	MA7-50	PA10-50	MS35-50 (2)	MS35-60C (2)	MA7-50	PA10-50	MS35-50 (2)	MA7-C		MS35-C (1)						
	50	T50-M.. T50-L..	L50-T..		MA10		MS50 (2)	MA10-50		MS50-50 (2)	MS50-60C (2)	MA10-50		MS50-50 (2)	MA10-C		MS50-C (1)						
	70	T70-M.. T70-L..	L70-T..				MS70 (2)	MA14-50	PA19-50	MS70-50 (2)	MS70-60C (2)	MA14-50	PA19-50	MS70-50 (2)	MA14-C	PA24-C	MS70-C (1)						
	95	T95-M.. T95-L..	L95-T..				MS95 (2)	MA19-50		MS95-50 (2)	MS95-60C (2)	MA19-50		MS95-50 (2)	MA19-C		MS95-C (1)						
T..-L..	120	T120-M.. T120-L..	L120-T..				MS120 (2)	MA24-50	PA24-50	MS120-50 (2)	MS120-60C (2)	MA24-50	PA24-50	MS120-50 (2)	MA24-C		MS120-C (1)						
	150	T150-M.. T150-L..	L150-T..				MS150 (3)			MS150-50 (3)	MS150-60C (3)			MS150-50 (3)	MA30-C		MS150-C (2)						
	185	T185-M..	L185-T..							MS185-50 (3)	MS185-60C (3)			MS185-50 (3)	MA37-C	PA48-C	MS185-C (2)						
	240	T240-M..	L240-T..							MS240-50 (4)	MS240-60C (4)			MS240-50 (4)	MA48-C		MS240-C (2)						
	300	T300-M..	L300-T..							MS300-50* (5)	MS300-60C (5)				MA60-C	PA60-C	MS300-C (3)						
	400	T400-M..	L400-T..														MS400-C (3)						

= Indent crimp = Hexagonal crimp

*Only for B500, B500ND and RH50

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

DIN EN 50182

APPLICATION	Conductor Size sqmm		MATERIAL (Al)		HYDRAULIC TOOLS							
					HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
	rm/sm	re/se	LUGS	SPLICES	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
 AAD..	10	16					MK10B-60C ⬡2					
	16	25	AAD16-M..		MK12B ⬡4	MK12B-50 ⬡4	MK12B-60C ⬡4	MK12B-50 ⬡4	MK12-C ⬡2	Adaptor AU230-130-D with die set MK...-C	Adaptor AU450-130D with die set MK...-C	Adaptor AU520-130-C with die set MK...-C
	16	25		DSVA16	MK12B ⬡3	MK12B-50 ⬡3	MK12B-60C ⬡3	MK12B-50 ⬡3	MK12-C ⬡1			
	25	35	AAD25-M..	DSVA25	MK12B ⬡4	MK12B-50 ⬡4	MK12B-60C ⬡4	MK12B-50 ⬡4	MK12-C ⬡2			
	35	50	AAD35-M..	DSVA35	MK14B ⬡5	MK14B-50 ⬡5	MK14B-60C ⬡5	MK14B-50 ⬡5	MK14-C ⬡2			
	50	70	AAD50-M..	DSVA50	MK16B ⬡5	MK16B-50 ⬡5	MK16B-60C ⬡5	MK16B-50 ⬡5	MK16-C ⬡2			
	70	95	AAD70-M..	DSVA70	MK18B ⬡6	MK18B-50 ⬡6	MK18B-60C ⬡6	MK18B-50 ⬡6	MK18-C ⬡3			
	95	120	AAD95-M..	DSVA95	MK22B ⬡6	MK22B-50 ⬡6	MK22B-60C ⬡6	MK22B-50 ⬡6	MK22-C ⬡3			
	120	150	AAD120-M..	DSVA120	MK22B ⬡6	MK22B-50 ⬡6	MK22B-60C ⬡6	MK22B-50 ⬡6	MK22-C ⬡3			
 DSVA..	150	185	AAD150-M..	DSVA150		MK25B-50 ⬡6	MK25B-60C ⬡6	MK25B-50 ⬡6	MK25-C ⬡3			
	185	240	AAD185-M..	DSVA185		MK28B-50 ⬡6	MK28B-60C ⬡6	MK28B-50 ⬡6	MK28L-C ⬡3			
	240	300	AAD240-M..	DSVA240		MK 32B-50 ⬡8	MK 32B-60C ⬡8		MK32L-C ⬡3			
	300		AAD300-M..	DSVA300			MK34B-60C ⬡8		MK34L-C ⬡3			
	400		AAD400-M..	DSVA400 / DSVA401						MK38-3D ⬡4	MK38-450 ⬡4	MK38-520 ⬡4
	500		AAD500-M..	DSVA500 / DSVA501						MK44-3D ⬡4	MK44-450 ⬡4	MK44-520 ⬡4
	625			DSVA625							MK52-450 ⬡5	MK52-520 ⬡5
	800			DSVA800							MK58-450 ⬡5	MK58-520 ⬡5
	1000			DSVA1000							MK60-450 ⬡5	MK60-520 ⬡5

rm = round stranded
sm = sector stranded
re = round solid
se = sector solid

⬡ = Hexagonal crimp

NB: for through connectors this is the number of crimps per conductor

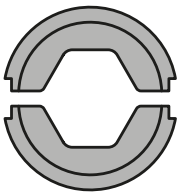
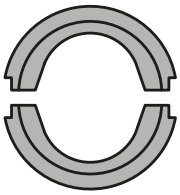
◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

MUT DIES CROSS REFERENCE CHART

DIE INDEX	DIE TYPE			
				
	14.6 tons tools 131 series	6 tons tools 51 series	6 tons tools 45 series	6 & 6.4 tons tools 54 & 55 series
161	**MUT9999-C**	MUT9999-50	MUT9999	MUT9999-W
162	**MUT9998-C**	MUT9998-50	MUT9998	MUT9998-W
163	**MUT9997-C**	MUT9997-50	MUT9997	MUT9997-W
164	**MUT9996-C**	MUT9996-50	MUT9996	MUT9996-W
166	**MUT9995-C**	MUT9995-50	MUT9995	MUT9995-W
167	**MUT9958-C**	-	-	MUT9958-W
168	**MUT9974-C**	-	-	-
169	**MUT9979-C**	-	-	-
170	**MUT9973-C**	-	-	-
203	**MUT9943-C**	MUT9943-50	-	MUT9943-W
204	**MUT9941-C**	MUT9941-50	-	MUT9941-W
209	**MUT9972-C**	-	-	-
239	**MUT9993-C**	MUT9993-50	MUT9993	MUT9993-W
242	**MUT9967-C**	-	-	-
243	**MUT9991-C**	MUT9991-50	MUT9991	MUT9991-W
247	-	MUT9954-50	-	MUT9954-W
249	**MUT9990-C**	MUT9990-50	MUT9990	MUT9990-W
253	**MUT9957-C**	-	-	-
255	**MUT9962-C**	-	-	-
261	**MUT9956-C**	-	-	-
296* beige	**MUT9924-C**	-	-	-
297* yellow olive	**MUT9923-C**	-	-	-
298* white	**MUT9921-C**	-	-	-
299* brown	**MUT9918-C**	-	-	-
300* pink	**MUT9916-C**	-	-	-
305	**MUT9977-C**	-	-	-
316	**MUT9976-C**	-	-	-
317	**MUT9965-C**	-	-	-
322	**MUT9971-C**	-	-	-
324* red	**MUT9920-C**	-	-	-
327	**MUT9961-C**	-	-	-
346* grey	**MUT9928-C**	-	-	-
348* pink	**MUT9926-C**	-	-	-
373	**MUT9989-C**	MUT9989-50	-	MUT9989-W
374* blue	**MUT9929-C**	-	-	-
375* green	**MUT9927-C**	-	-	-
467* rubin	**MUT9922-C**	-	-	-
470* blue	**MUT9919-C**	-	-	-
471* gold	**MUT9925-C**	-	-	-
472* green	**MUT9917-C**	-	-	-
473* black	**MUT9915-C**	-	-	-
490	**MUT9966-C**	-	-	-
642	**MUT9970-C**	-	-	-
654	**MUT9975-C**	MUT9975-50	-	-
655	**MUT9968-C**	-	-	-
658	**MUT9988-C**	MUT9988-50	-	MUT9988-W
659	**MUT9987-C**	MUT9987-50	MUT9987	MUT9987-W
936* yellow	**MUT9914-C**	-	-	-
698	**MUT9986-C**	MUT9986-50	MUT9986	MUT9986-W
699	**MUT9985-C**	MUT9985-50	-	MUT9985-W
708	**MUT9959-C**	-	-	-
756	**MUT9964-C**	-	-	-
788	**MUT9950-C**	-	-	-
790	**MUT9969-C**	-	-	-
BG	**MUT9984-C**	MUT9984-50	-	MUT9984-W
C	**MUT9983-C**	MUT9983-50	MUT9983	MUT9983-W
D	**MUT9978-C**	-	-	-
D3	**MUT9981-C**	MUT9981-50	-	-
E	**MUT9982-C**	MUT9982-50	-	MUT9982-W
F	**MUT9960-C**	-	-	-
K840	-	-	-	MUT9942-W
N	**MUT9955-C**	-	-	-
O	**MUT9980-C**	MUT9980-50	-	MUT9980-W

**Stainless steel dies*

RHU600 DIES CROSS REFERENCE CHART

	DIE INDEX	DIE TYPE			
		CEMBRE	ALCOA	HUSKIE	BURNDY
	10SH	M10SH-600	6010SH	HA60-01	-
	12SH	M12SH-600	6012SH	HA60-02	-
	14SH	M14SH-600	6014SH	HA60-03	-
	16SH	M16SH-600	6016SH	HA60-04	-
	18SH	M18SH-600	6018SH	HA60-05	-
	20SH	M20SH-600	6020SH	HA60-06	-
	74SH	M74SH-600	6074SH	HA60-07	-
	75SH	M75SH-600	6075SH	HA60-08	-
	76SH	M76SH-600	6076SH	HA60-09	-
	76.1SH	M76.1SH-600	6076.1SH	-	-
	20AH	M20AH-600	6020AH	HA60-20	20AH60
	24AH	M24AH-600	6024AH	HA60-21	24AH60
	27AH	M27AH-600	6027AH	HA60-22	27AH60
	30AH	M30AH-600	6030AH	HA60-23	30AH60
	34AH	M34AH-600	6034AH	HA60-24	34AH60
	36AH	M36AH-600	6036AH	HA60-25	36AH60
	38AH	M38AH-600	6038AH	HA60-26	38AH60
	40AH	M40AH-600	6040AH	HA60-27	40AH60
	74AH	M74AH-600	6074AH	HA60-28	-
	75AH	M75AH-600	6075AH	HA60-29	75AH60
	76AH	M76AH-600	6076AH	HA60-30	76AH60
	07CD	M7CD-600	6007CD	HA60-40	07CD60
	08CD	M8CD-600	6008CD	HA60-41	08CD60
	09CD	M9CD-600	6009CD	HA60-42	09CD60
	10CD	M10CD-600	6010CD	HA60-43	10CD60
	11CD	M11CD-600	6011CD	HA60-44	11CD60
	12CD	M12CD-600	6012CD	HA60-45	12CD60
	13CD	M13CD-600	6013CD	HA60-46	13CD60
	14CD	M14CD-600	6014CD	HA60-47	14CD60
	15CD	M15CD-600	6015CD	HA60-48	15CD60
	16CD	M16CD-600	6016CD	HA60-49	16CD60
	17CD	M17CD-600	6017CD	HA60-50	17CD60

RHU1000 DIES CROSS REFERENCE CHART

DIE INDEX	DIE TYPE		
	 CEMBRE	ALCOA	HUSKIE
10SH	M10SH-1000	10010SH	HA100-01
12SH	M12SH-1000	10012SH	HA100-02
14SH	M14SH-1000	10014SH	HA100-03
16SH	M16SH-1000	10016SH	HA100-04
18SH	M18SH-1000	10018SH	HA100-05
20SH	M20SH-1000	10020SH	HA100-06
76SH	M76SH-1000	10076SH	-
20AH	M20AH-1000	10020AH	HA100-20
24AH	M24AH-1000	10024AH	HA100-21
27AH	M27AH-1000	10027AH	HA100-22
30AH	M30AH-1000	10030AH	HA100-23
34AH	M34AH-1000	10034AH	HA100-24
36AH	M36AH-1000	10036AH	HA100-25
38AH	M38AH-1000	10038AH	HA100-26
40AH	M40AH-1000	10040AH	HA100-27
76AH	M76AH-1000	10076AH	HA100-30
42AH	M42AH-1000	10042AH	HA100-34
44AH	M44AH-1000	10044AH	HA100-36
48AH	M48AH-1000	10048AH	HA100-38
07CD	M7CD-1000	10007CD	HA100-40
08CD	M8CD-1000	10008CD	HA100-41
09CD	M9CD-1000	10009CD	HA100-42
10CD	M10CD-1000	10010CD	HA100-43
11CD	M11CD-1000	10011CD	HA100-44
12CD	M12CD-1000	10012CD	HA100-45
13CD	M13CD-1000	10013CD	HA100-46
14CD	M14CD-1000	10014CD	HA100-47
15CD	M15CD-1000	10015CD	HA100-48
16CD	M16CD-1000	10016CD	HA100-49
17CD	M17CD-1000	10017CD	HA100-50
18CD	M18CD-1000	10018CD	HA100-51
19CD	M19CD-1000	10019CD	HA100-52
20CD	M20CD-1000	10020CD	HA100-53

APPENDIX



Comparison of AWG, MCM and Metric conductor cross sections

CONDUCTORS SECTIONS					
Conversion Table AWG, MCM / mm²					
[AWG]	Actual conductor csa mm²	Comparable metric csa mm²	[MCM]	Actual conductor csa mm²	Comparable metric csa mm²
27	0,10		250	127	120
26	0,13	0,14	300	152	150
25	0,16	-	350	177	185
24	0,21	0,2	400	203	-
23	0,26	0,25	500	253	240
22	0,33	0,34	600	304	300
21	0,41	-	700	355	-
20	0,52	0,5	800	405	400
19	0,65	-	900	456	-
18	0,82	0,75	1000	507	500
17	1,04	1	1250	633	625
16	1,31	-	1500	760	800
15	1,65	1,5	1750	887	-
14	2,08	-	2000	1010	1000
13	2,63	2,5			
12	3,31	-			
11	4,15	4			
10	5,27	6			
9	6,62	-			
8	8,35	-			
7	10,6	10			
6	13,3	-			
5	16,8	16			
4	21,2	-			
3	26,7	25			
2	33,6	35			
1	42,4	-			
1/0	53,4	50			
2/0	67,5	70			
3/0	85,0	95			
4/0	107,2	120			

MAXIMUM DIAMETERS OF CIRCULAR COPPER CONDUCTORS: SOLID, NON COMPACTED STRANDED AND FLEXIBLE			
Cross sectional area [mm²]	Conductors in cables for fixed installations		Flexible conductors (Classes 5 and 6) Maximum diameter [mm]
	Solid (Class 1) Maximum diameter [mm]	Stranded (Class 2) Maximum diameter [mm]	
0,5	0,9	1,1	1,1
0,75	1	1,2	1,3
1	1,2	1,4	1,5
1,5	1,5	1,7	1,8
2,5	1,9	2,2	2,4
4	2,4	2,7	3
6	2,9	3,3	3,9
10	3,7	4,2	5,1
16	4,6	5,3	6,3
25 [a]	5,7	6,6	7,8
35 [a]	6,7	7,9	9,2
50 [a]	7,8	9,1	11
70 [a]	9,4	11	13,1
95 [a]	11	12,9	15,1
120 [a]	12,4	14,5	17
150 [a]	13,8	16,2	19
185	15,4	18	21
240	17,6	20,6	24
300	19,8	23,1	27
400	22,2	26,1	31
500	-	29,2	35
630	-	33,2	39
800	-	37,6	-
1000	-	42,2	-

NOTE: The values given for flexible conductors represent both class 5 and class 6 conductors.

[a] Solid copper conductor shaving cross-sectional areas of 25 mm² and above are for particular types of cable, e.g. mineral insulated, and not for general purposes.

MINIMUM AND MAXIMUM DIAMETERS OF STRANDED COMPACTED CIRCULAR COPPER, ALUMINIUM AND ALUMINIUM ALLOY CONDUCTORS		
Cross-sectional area [mm²]	Stranded compacted circular conductors (Class 2)	
	Minimum diameter [mm]	Maximum diameter [mm]
10	3,6	4,0
16	4,6	5,2
25	5,6	6,5
35	6,6	7,5
50	7,7	8,6
70	9,3	10,2
95	11,0	12,0
120	12,3	13,5
150	13,7	15,0
185	15,3	16,8
240	17,6	19,2
300	19,7	21,6
400	22,3	24,6
500	25,3	27,6
630	28,7	32,5

NOTES: - The dimensional limits of Aluminium conductors with cross-sectional areas above 630 mm² are not given as the compaction technology is not generally estabilished.

- The values are given for compacted copper conductors in the size range 1,5 mm² to 6 mm².

MINIMUM AND MAXIMUM DIAMETERS OF CIRCULAR ALUMINIUM CONDUCTORS		
Cross-sectional area [mm²]	Solid conductors (Class 1)	
	Minimum diameter [mm]	Maximum diameter [mm]
10	3,4	3,7
16	4,1	4,6
25	5,2	5,7
35	6,1	6,7
50	7,2	7,8
70	8,7	9,4
95	10,3	11,0
120	11,6	12,4
150	12,9	13,8
185	14,5	15,4
240	16,7	17,6
300	18,8	19,8
400	21,2	22,2
500	24,0	25,1
630	27,3	28,4
800	30,9	32,1
1000	34,8	36,0
1200	37,8	39,0

IEC 60228 : 2004 - 11 conductor tables

CLASS 1: SOLID CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum resistance of conductor at 20 °C		
	Circular, annealed Copper conductors		Aluminium and Aluminium alloy conductors, circular or shaped c [ohm/km]
	Plain [ohm/km]	Metal [ohm/km]	
0,5	36	36,7	-
0,75	24,5	24,8	-
1	18,1	18,2	-
1,5	12,1	12,2	-
2,5	7,41	7,56	-
4	4,61	4,70	-
6	3,08	3,11	-
10	1,83	1,84	3,08 a
16	1,15	1,16	1,91 [a]
25	0,727 [b]	-	1,20 [a]
35	0,524 [b]	-	0,868 [a]
50	0,387 [b]	-	0,641
70	0,268 [b]	-	0,443
95	0,193 [b]	-	0,320 d
120	0,153 [b]	-	0,253 d
150	0,124 [b]	-	0,206 d
185	0,101 [b]	-	0,164 d
240	0,0775 [b]	-	0,125 d
300	0,0620 b	-	0,100 d
400	0,0465 b	-	0,0778
500	-	-	0,0605
630	-	-	0,0469
800	-	-	0,0367
1000	-	-	0,0291
1200	-	-	0,0247

[a] *Aluminium conductors 10 mm² to 35 mm² circular only*

[b] *Solid Copper conductors having nominal cross-sectional area of 25 mm² and above are for particular types of cable, e.g. mineral insulated, and not for general purposes.*

[c] *For solid Aluminium alloy conductors, having the same nominal cross-sectional area as an Aluminium conductor, the resistance value given in the table should be multiplied by a factor of 1,162 unless otherwise agreed between the manufacturer and the purchaser.*

[d] *For single core cables, four sectoral shaped conductors may be assembled into a single circular conductor. The maximum resistance of the assembled conductor shall be 25% of that of the individual component conductors.*

CLASS 2: STRANDED CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES									
Nominal cross-sectional area [mm²]	Minimum number of wires in the conductor						Maximum resistance of conductor at 20 °C		
	Circular		Circular compacted		Shaped		Annealed copper conductor		Aluminium or aluminium alloy conductor [c] [ohm/km]
	Cu	Al	Cu	Al	Cu	Al	Plain wires [ohm/km]	Metal-coated wires [ohm/km]	
0,5	7	-	-	-	-	-	36,0	36,7	-
0,75	7	-	-	-	-	-	24,5	24,8	-
1,0	7	-	-	-	-	-	18,1	18,2	-
1,5	7	-	6	-	-	-	12,1	12,2	-
2,5	7	-	6	-	-	-	7,41	7,56	-
4	7	-	6	-	-	-	4,61	4,70	-
6	7	-	6	-	-	-	3,08	3,11	-
10	7	7	6	6	-	-	1,83	1,84	3,08
16	7	7	6	6	-	-	1,15	1,16	1,91
25	7	7	6	6	6	6	0,727	0,734	1,20
35	7	7	6	6	6	6	0,524	0,529	0,868
50	19	19	6	6	6	6	0,387	0,391	0,641
70	19	19	12	12	12	12	0,268	0,270	0,443
95	19	19	15	15	15	15	0,193	0,195	0,320
120	37	37	18	15	18	15	0,153	0,154	0,253
150	37	37	18	15	18	15	0,124	0,126	0,206
185	37	37	30	30	30	30	0,0991	0,100	0,164
240	61	61	34	30	34	30	0,0754	0,0762	0,125
300	61	61	34	30	34	30	0,0601	0,0607	0,100
400	61	61	53	53	53	53	0,0470	0,0475	0,0778
500	61	61	53	53	53	53	0,0366	0,0369	0,0605
630	91	91	53	53	53	53	0,0283	0,0286	0,0469
800	91	91	53	53	-	-	0,0221	0,0224	0,0367
1000	91	91	53	53	-	-	0,0176	0,0177	0,0291
1200	b						0,0151	0,0151	0,0247
1400 a	b						0,0129	0,0129	0,0212
1600	b						0,0113	0,0113	0,0186
1800 a	b						0,0101	0,0101	0,0165
2000	b						0,0090	0,0090	0,0149
2500	b						0,0072	0,0072	0,0127

[a] *Non-preferred sizes. Other non-preferred sizes are recognized for some specialized applications but are not within the scope of this standard.*

[b] *The minimum number of wires for these sizes is not specified. These sizes may be constructed from 4, 5 or 6 equal segments (Milliken).*

[c] *For stranded Aluminium alloy conductors having the same nominal cross-sectional area as an Aluminium conductor the resistance value should be agreed between the manufacturer and the purchaser.*

IEC 60228 : 2004 - 11 conductor tables

CLASS 5:			
FLEXIBLE COPPER CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum diameter of wires in conductor [mm]	Maximum resistance of conductor at 20 °C	
		Plain wires [ohm/km]	Metal-coated wires [ohm/km]
0,5	0,21	39	40,1
0,75	0,21	26	26,7
1	0,21	19,5	20
1,5	0,26	13,3	13,7
2,5	0,26	7,98	8,21
4	0,31	4,95	5,09
6	0,31	3,3	3,39
10	0,41	1,91	1,95
16	0,41	1,21	1,24
25	0,41	0,78	0,795
35	0,41	0,554	0,565
50	0,41	0,386	0,393
70	0,51	0,272	0,277
95	0,51	0,206	0,21
120	0,51	0,161	0,164
150	0,51	0,129	0,132
185	0,51	0,106	0,108
240	0,51	0,080	0,081
300	0,51	0,064	0,065
400	0,51	0,048	0,049
500	0,61	0,038	0,039
630	0,61	0,028	0,029

CLASS 6:			
FLEXIBLE COPPER CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum diameter of wires in conductor [mm]	Maximum resistance of conductor at 20 °C	
		Plain wires [ohm/km]	Metal-coated wires [ohm/km]
0,5	0,16	39	40,1
0,75	0,16	26	26,7
1	0,16	19,5	20
1,5	0,16	13,3	13,7
2,5	0,16	7,98	8,21
4	0,16	4,95	5,09
6	0,21	3,3	3,39
10	0,21	1,91	1,95
16	0,21	1,21	1,24
25	0,21	0,78	0,795
35	0,21	0,554	0,565
50	0,31	0,386	0,393
70	0,31	0,272	0,277
95	0,31	0,206	0,21
120	0,31	0,161	0,164
150	0,31	0,129	0,132
185	0,41	0,106	0,108
240	0,41	0,080	0,081
300	0,41	0,064	0,065

System of denomination of harmonised cables according to CENELEC HD 361

REFERENCE TO THE STANDARDS

- **H** Cable conforming to harmonised standards
- **A** Recognised national type of cable
- **N** Other type of national cable

RATED VOLTAGE

- **00** Less than 100 / 100 V
- **01** Above 100 / 100 V and less than 300 / 300 V
- **03** 300 / 300 V
- **05** 300 / 500 V
- **07** 450 / 750 V
- **1** 0,6 / 1 kV

INSULATION AND SHEATH MATERIAL

- **B** Ethylenpropylene rubber for working temperature of 60° C
- **N** Polychloroprene
- **N2** Polychloroprene for welding cables
- **Q** Polyurethane
- **R** Rubber
- **V** Common-quality PVC
- **V2** PVC for working temperatures of 90° C
- **V3** PVC for low temperature cables
- **V4** Reticulate PVC
- **V5** Oil-resistant PVC
- **Z** Polyolefin mixture

SCREENS

- **C** Concentric Copper core
- **C4** Copper braid screen on multiple cores
- **C5** Copper braid screen on single cores
- **C7** Screen made of Copper straps or ribbons

ARMOURS

- **Z2** Round Steel strand armour
- **Z3** Steel strap armour
- **Z4** Steel ribbon armour
- **Z5** Steel strand braid

CONSTRUCTIVE FORM OF THE CABLE

- **H** Flat divisible cable with or without sheath
- **H2** Flat indivisible cable
- **H3** Flat cable with cores separated by a slat
- **H6** Flat cable with three or more cores
- **H7** Cable with double-layered insulation
- **H8** Extendable cord

CONDUCTOR FLEXIBILITY DEGREE

- **D** Flexible core for weldings cables
- **E** Very flexible core for welding cables
- **F** Flexible core for moving connections
- **H** Very flexible core for moving connections
- **K** Flexible core for fixed laying
- **R** Rigid round cord
- **U** Round rigid single strand

UL and VDE marking of cable glands

MAXIblock® spiralblock®

Type (°)	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	EN 62444 [mm]	IMPACT CATEGORY (*)	MARKING
1900.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1900.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1900.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1900.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1900.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**
1900.M40	M40x1,5	19-28	21-28	0.83-1.10	19-28	3	**USL-CNL / VDE**
1900.M50	M50x1,5	27-35	27-34	1.06-1.34	27-35	3	**USL-CNL / VDE**
1900.M63	M63x1,5	34-45	35	1.38	34-45	3	**USL-CNL / VDE**
1910.M12	M12x1,5	2-5	3-5	0.12-0.20	2-5	1	**USR-CNR / VDE**
1910.M16	M16x1,5	3-7	5-7	0.20-0.28	5-7	1	**USR-CNR / VDE**
1910.M20	M20x1,5	5-10	5-10	0.20-0.40	6-10	3	**USR-CNR / VDE**
1910.M25	M25x1,5	7-13	6-13	0.24-0.51	7-13	3	**USR-CNR / VDE**
1910.M32	M32x1,5	8-14	7-14	0.28-0.55	8-14	3	**USR-CNR / VDE**
1910.M40	M40x1,5	15-23	17-23	0.67-0.91	15-23	3	**USL-CNL / VDE**
1910.M50	M50x1,5	20-29	20-29	0.79-1.14	21-29	3	**USL-CNL / VDE**
1910.M63	M63x1,5	27-39	29-35	1.14-1.38	28-39	3	**USL-CNL / VDE**
1901.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1901.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1901.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1901.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1901.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**
1901.M40	M40x1,5	19-28	21-28	0.83-1.10	19-28	3	**USL-CNL / VDE**
1901.M50	M50x1,5	27-35	27-34	1.06-1.34	27-35	3	**USL-CNL / VDE**
1901.M63	M63x1,5	34-45	35	1.38	34-45	3	**USL-CNL / VDE**
1940.M20	M20x1,5	10-14	10-14	0.40-0.55	10-14	2	**USR-CNR / VDE**
1940.M25	M25x1,5	13-18	13-18	0.51-0.71	13-18	2	**USL-CNL / VDE**
1940.M40	M40x1,5	26-34	26-34	1.02-1.34	26-34	3	**USL-CNL / VDE**
1940E.M40	M40x1,5	22-32	23-32	0.91-1.26	22-32	3	**USL-CNL / VDE**
1500.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1500.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1500.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1500.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1500.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**

MAXIbrass®

Type	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	EN 62444 [mm]	IMPACT CATEGORY (*)	MARKING
2900.M12N	M12x1,5	3-7	3-7	0.12-0.28	3-7	5	**USR-CNR / VDE**
2900.M16N	M16x1,5	4,5-10	6-10	0.24-0.39	4,5-10	6	**USR-CNR / VDE**
2900.M20N	M20x1,5	7-13	8-13	0.31-0.51	7-13	6	**USL-CNL / VDE**
2900.M25N	M25x1,5	10-17	13-17	0.51-0.67	11-17	6	**USL-CNL / VDE**
2900.M32N	M32x1,5	11-21	13-21	0.51-0.83	13-21	6	**USL-CNL / VDE**
2900.M40N	M40x1,5	19-28	21-28	0.83-1.10	19-28	6	**USL-CNL / VDE**
2900.M50N	M50x1,5	26-35	27-35	1.06-1.38	26-35	6	**USL-CNL / VDE**
2900.M63N	M63x1,5	34-45	34-45	1.33-1.77	34-45	6	**USL-CNL / VDE**
2910.M12N	M12x1,5	1-5	2-5	0.08-0.20	2-5	5	**USR-CNR / VDE**
2910.M16N	M16x1,5	2,5-7	3,5-7	0.14-0.28	4-7	6	**USR-CNR / VDE**
2910.M20N	M20x1,5	5-10	5-10	0.20-0.39	5,5-10	6	**USR-CNR / VDE**
2910.M25N	M25x1,5	6-13	8-13	0.31-0.51	6-13	6	**USR-CNR / VDE**
2910.M32N	M32x1,5	7-14	7-14	0.28-0.55	9-14	6	**USR-CNR / VDE**
2910.M40N	M40x1,5	13-23	15-23	0.59-0.90	17-23	6	**USL-CNL / VDE**
2910.M50N	M50x1,5	20-29	20-29	0.79-1.14	25-29	6	**USL-CNL / VDE**
2910.M63N	M63x1,5	27-39	28-39	1.10-1.54	31-39	6	**USL-CNL / VDE**
2901.M12N	M12x1,5	3-7	3-7	0.12-0.28	3-7	5	**USR-CNR / VDE**
2901.M16N	M16x1,5	4,5-10	6 -10	0.24-0.39	4,5-10	6	**USR-CNR / VDE**
2901.M20N	M20x1,5	7-13	8-13	0.31-0.51	7-13	6	**USL-CNL / VDE**
2901.M25N	M25x1,5	10-17	13-17	0.51-0.67	11-17	6	**USL-CNL / VDE**
2901.M32N	M32x1,5	11-21	13-21	0.51-0.83	13-21	6	**USL-CNL / VDE**
2901.M40N	M40x1,5	19-28	21-28	0.83-1.10	19-28	6	**USL-CNL / VDE**
2901.M50N	M50x1,5	26-35	27-35	1.06-1.38	26-35	6	**USL-CNL / VDE**
2911.M12N	M12x1,5	1-5	2-5	0.08-0.20	2-5	5	**USR-CNR / VDE**
2911.M16N	M16x1,5	2,5-7	3,5-7	0.14-0.28	4-7	6	**USR-CNR / VDE**
2911.M20N	M20x1,5	5-10	5-10	0.20-0.39	5,5-10	6	**USR-CNR / VDE**
2911.M25N	M25x1,5	6-13	8-13	0.31-0.51	6-13	6	**USR-CNR / VDE**
2911.M32N	M32x1,5	7-14	7-14	0.28-0.55	9-14	6	**USR-CNR / VDE**
2911.M40N	M40x1,5	13-23	15-23	0.59-0.90	17-23	6	**USL-CNL / VDE**
2911.M50N	M50x1,5	20-29	20-29	0.79-1.14	25-29	6	**USL-CNL / VDE**
2940.M12N	M12x1,5	5-8	5-8	0.20-0.31	5-8	5	**USR-CNR / VDE**
2940.M16N	M16x1,5	7-12	8-12	0.31-0.47	8-12	6	**USR-CNR / VDE**
2940.M20N	M20x1,5	10-16	12-16	0.47-0.63	12-16	6	**USR-CNR / VDE**
2940.M25N	M25x1,5	13-21	14-21	0.55-0.83	13-21	6	**USL-CNL / VDE**
2940.M32N	M32x1,5	18-25	21-25	0.83-0.98	18-25	6	**USL-CNL / VDE**
2940.M40N	M40x1,5	25-32	25-32	0.98-1.26	25-32	6	**USL-CNL / VDE**
2940.M50N	M50x1,5	30-38	30-37	1.18-1.46	30-38	6	**USL-CNL / VDE**
2940E.M50N	M50x1,5	35-45	35-41	1.38-1.61	35-45	6	**USL-CNL / VDE**

(°) Add to Ref: N for Black, G for Dark Grey
(*) EN 62444 § 9.5

VDE: Licence nos 40008472, 40008474, 40008475 and 40008476
USL-CNL: UL LISTING file no E220310; control no 48SB valid in USA & Canada
USR-CNR: UL RECOGNITION file no E220310 valid in USA & Canada (with reduced tightening force)

MAXIblock® spiralblock®

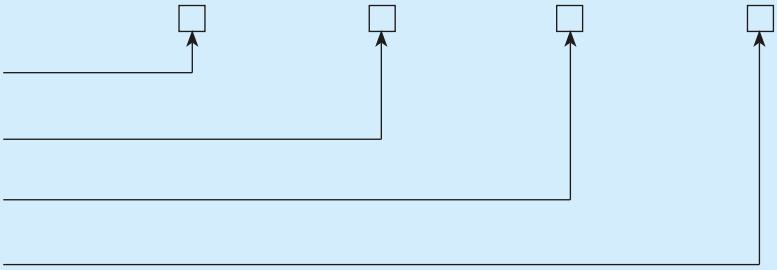
Type (°)	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	MARKING
1900.07	Pg 7	3,5-7	4.5-6.5	0.18-0.25	**USR-CNR**
1900.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1900.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1900.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1900.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1900.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1900.29	Pg 29	18-25	22-25	0.87-0.98	**USL-CNL**
1900.36	Pg 36	20-32	21.5-32	0.85-1.26	**USR-CNR**
1900.42	Pg 42	28-38	32-38	1.26-1.49	**USL-CNL**
1900.48	Pg 48	34-45	35	1.38	**USL-CNL**
1910.07	Pg 7	2-5	3-5	0.12-0.20	**USR-CNR**
1910.11	Pg 11	4-7	4-7	0.16-0.28	**USR-CNR**
1910.13	Pg 13,5	5-10	10	0.39	**USR-CNR**
1910.21	Pg 21	9-15	10-14	0.39-0.55	**USR-CNR**
1910.36	Pg 36	18-26	18-26	0.71-1.02	**USR-CNR**
1910.42	Pg 42	25-31	25-31	0.98-1.22	**USL-CNL**
1901.07	Pg 7	3.5-7	6.5	0.26	**USR-CNR**
1901.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1901.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1901.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1901.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1901.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1901.29	Pg 29	18-25	22-25	0.87-0.98	**USL-CNL**
1901.36	Pg 36	20-32	21.5-32	0.85-1.26	**USR-CNR**
1901.42	Pg 42	28-38	32-38	1.26-1.49	**USL-CNL**
1901.48	Pg 48	34-45	35	1.38	**USL-CNL**
1500.07	Pg 7	3,5-7	4.5-6.5	0.18-0.25	**USR-CNR**
1500.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1500.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1500.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1500.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1900.14	G1/4"	3-6,5	4.5-6.5	0.18-0.25	**USR-CNR**
1900.38	G3/8"	4-8	6-8	0.24-0.31	**USR-CNR**
1900.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1900.34	G3/4"	13-18	13-18	0.51-0.71	**USL-CNL**
1500.14	G1/4"	3-6,5	4.5-6.5	0.18-0.25	**USR-CNR**
1500.38	G3/8"	4-8	6-8	0.24-0.31	**USR-CNR**
1500.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.34	G3/4"	13-18	13-18	0.51-0.71	**USL-CNL**

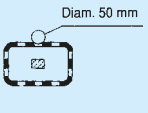
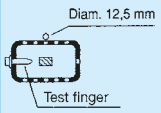
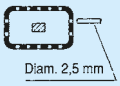
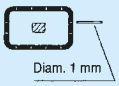
MAXIbrass®

Type	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	MARKING
2900.07N	Pg 7	3-7	3-7	0.12-0.28	**USR-CNR**
2900.09N	Pg 9	4-8	4-8	0.16-0.31	**USR-CNR**
2900.11N	Pg 11	4,5-10	6-10	0.24-0.39	**USR-CNR**
2900.13N	Pg 13,5	5-12	10-12	0.39-0.47	**USL-CNL**
2900.16N	Pg 16	7-13	10-13	0.39-0.51	**USL-CNL**
2900.21N	Pg 21	10-17	12-17	0.47-0.67	**USL-CNL**
2900.29N	Pg 29	17-25	18-25	0.71-0.98	**USL-CNL**
2900.36N	Pg 36	20-32	23-32	0.91-1.26	**USL-CNL**
2900.42N	Pg 42	28-38	28-35	1.10-1.38	**USL-CNL**
2900.48N	Pg 48	34-45	34-45	1.33-1.77	**USL-CNL**
2910.07N	Pg 7	1-5	2-5	0.08-0.20	**USR-CNR**
2910.09N	Pg 9	2-6	3-6	0.12-0.24	**USR-CNR**
2910.11N	Pg 11	2,5-7	3,5-7	0.14-0.28	**USR-CNR**
2910.13N	Pg13,5	4-10	5,5-10	0.22-0.39	**USR-CNR**
2910.16N	Pg 16	5-10	6-10	0.24-0.39	**USR-CNR**
2910.21N	Pg 21	6-13	7-13	0.28-0.51	**USR-CNR**
2910.29N	Pg 29	11-20	12-20	0.47-0.79	**USR-CNR**
2910.36N	Pg 36	18-26	19-26	0.75-1.02	**USL-CNL**
2910.42N	Pg 42	24-31	24-31	0.94-1.22	**USL-CNL**
2910.48N	Pg 48	27-39	31-39	1.22-1.54	**USL-CNL**
2901.07N	Pg 7	3-7	3-7	0.12-0.28	**USR-CNR**
2901.09N	Pg 9	4-8	4-8	0.16-0.31	**USR-CNR**
2901.11N	Pg 11	4,5-10	6-10	0.24-0.39	**USR-CNR**
2901.13N	Pg13,5	5-12	10-12	0.39-0.47	**USL-CNL**
2901.16N	Pg 16	7-13	10-13	0.39-0.51	**USL-CNL**
2901.21N	Pg 21	10-17	12-17	0.47-0.67	**USL-CNL**
2901.29N	Pg 29	17-25	18-25	0.71-0.98	**USL-CNL**
2901.36N	Pg 36	20-32	23-32	0.91-1.26	**USL-CNL**
2901.42N	Pg 42	28-38	28-35	1.10-1.38	**USL-CNL**
2911.07N	Pg 7	1-5	2-5	0.08-0.20	**USR-CNR**
2911.09N	Pg 9	2-6	3-8	0.12-0.31	**USR-CNR**
2911.11N	Pg 11	2,5-7	3,5-7	0.14-0.28	**USR-CNR**
2911.13N	Pg13,5	4-10	5,5-10	0.22-0.39	**USR-CNR**
2911.16N	Pg 16	5-10	6-10	0.24-0.39	**USR-CNR**
2911.21N	Pg 21	6-13	7-13	0.28-0.51	**USR-CNR**
2911.29N	Pg29	11-20	12-20	0.47-0.79	**USR-CNR**
2911.36N	Pg36	18-26	19-26	0.75-1.02	**USL-CNL**
2911.42N	Pg42	24-31	24-31	0.94-1.22	**USL-CNL**

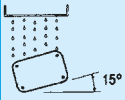
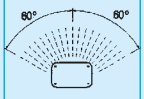
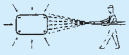
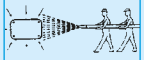
CEMBRE

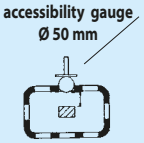
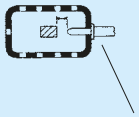
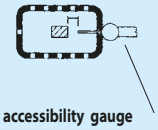
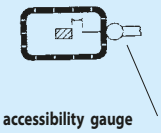
Ingress protection (IP) rating according to EN 60529 - CEI 70-1

IP CODE	
The first digit (0-6 or X letter): Protection against ingress of solid matter	
Second digit (0-8 or X letter): Protection against ingress of liquids	
(A, B, C, D) for future use. Restricted entry to dangerous parts:	
(H,M,S,W) for future use. Specific criteria:	

1st CHARACTERISTIC NUMBER:							
PROTECTION AGAINST INGRESS OF SOLID MATTER							
PROTECTION	**0**	**1**	**2**	**3**	**4**	**5**	**6**
Protection against ingress of solid matter caused by		solid bodies measuring over 50 mm	solid bodies measuring over 12,5 mm	solid bodies measuring over 2,5 mm	solid bodies measuring over 1 mm	powder in harmful quantities	Powder (completely protected)
Test method		 Accessibility gauge ø 50 mm	 Accessibility gauge ø 12,5 mm	 Accessibility gauge ø 2,5 mm	 Accessibility gauge ø 1 mm	 talcum powder	 talcum powder

Ingress protection (IP) rating according to EN 60529 - CEI 70-1

2nd CHARACTERISTIC NUMBER:									
PROTECTION AGAINST INGRESS OF LIQUIDS									
PROTECTION	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Protection against ingress of liquids caused by		Drops of water falling vertically	Vertical drops of water with inclination of casing up to 15°	Rain	Sprays of water	Jets of water	Powerful jets of water	Temporary Immersion	Permanent Immersion
Test method									Agreement between manufacturer and user but more severe than 7

1st ADDITIONAL LETTER:				
RESTRICTED ENTRY TO DANGEROUS PARTS				
RESTRICTED ENTRY	**A**	**B**	**C**	**D**
Restricted entry to dangerous parts caused by	back of hand	finger	tool	wire
Test method		 articulated test finger	 accessibility gauge Ø 2,5 mm	 accessibility gauge Ø 1 mm

2nd ADDITIONAL LETTER :				
MEANING OF THE SECOND ADDITIONAL LETTER				
SPECIFIC CRITERIA	**H**	**M**	**S**	**W**
Specific criteria	High voltage equipment	Tested against negative effects of water penetration, when the moveable parts of the equipment (e.g. wheels of a revolving machine) are moving	Tested against the negative effects of water penetration, when the moveable parts of the equipment (e.g. wheels of a revolving machine) are stationary	Suitable for use in environmental conditions as specified and equipped with additional measures of protection

Overview of NEMA ratings

National Electrical Manufacturers Association, or NEMA, is an organization that deals with technical standards for the manufacturing of electrical equipment and medical imaging equipment.

Most commonly, they are known for their rating system, known as NEMA Rating which classifies the level of protection an enclosure has against environmental elements. They are closely related to IP Ratings, but they allow for additional environmental elements such as corrosion.

NEMA is an American standard whereas IP is a European standard. NEMA ratings are used exclusively for enclosures, but IP ratings can be used for all kind of devices.

There is no direct correlation between NEMA ratings and IP ratings!

Understanding NEMA Ratings: Definition, NEMA Chart, and FAQS - Engineer Fix

NEMA ratings start at level 1 all the way up to NEMA level 13. Each NEMA rating means a different level of protection.

NEMA RATING	DESCRIPTION	ENVIRONMENTAL REQUIREMENTS	MECHANICAL REQUIREMENTS
NEMA 1	Indoor use	Dust-tight	Basic protection
NEMA 2	Indoor use	Drip-tight	Basic protection
NEMA 3	Outdoor use	Rain-tight	Basic protection
NEMA 3R	Outdoor use	Rain-tight	Protection from falling ice and sleet
NEMA 4	Outdoor use	Water-tight	Protection from falling ice and sleet
NEMA 4X	Outdoor use	Water-tight	Protection from corrosion
NEMA 6	Submersible	Water-tight	Protection from corrosion
NEMA 7	Explosion-proof	Protection from ignitable dust, and fibers	Protection from mechanical damage and corrosion
NEMA 8	Explosion-proof	Protection from ignitable gases and vapors	Protection from mechanical damage and corrosion
NEMA 9	Explosion-proof	Protection from ignitable gases, vapors, and dusts	Protection from mechanical damage and corrosion
NEMA 10	Explosion-proof	Protection from ignitable dusts	Protection from mechanical damage and corrosion
NEMA 11	Explosion-proof	Protection from ignitable fibers	Protection from mechanical damage and corrosion
NEMA 12	Indoor use	Dust-tight	Protection from dripping water and non-corrosive liquids
NEMA 13	Indoor use	Dust-tight	Protection from dripping water and oil

NEMA ratings to find in Cembre products

6P Rating
NEMA 6P enclosures are applicable indoors and outdoors. They prevent accidental human contact with electrical components.
They also protect against:
- Falling earth
- Direct water from the hose
- Damage caused by ice forming on the enclosure surface
- Water ingress from temporary immersion

4X Rating
NEMA 4X IP rated enclosures are ideal for protection against limiting accidental human contact and:
- Dust carried by the wind
- Sleet
- To snow
- Water sprayed from the hose
- Falling earth
- Corrosion

Enclosed equipment will remain safe even if snow settles on the storage facility.

12 Rating
NEMA 12 enclosures are made with holes and are recommended for indoor installation.
They provide electrical components with some protection against:
- Dangerous materials
- Falling earth
- High speed dust, lint, fibers
- Liquids that drip or splash slightly

Overview of NEMA ratings

	POLYMERIC MATERIAL - MAXIBLOCK			METALLIC MATERIAL - MAXIBRASS
TEST DESCRIPTION	6P RATING	4X RATING	12 RATING	6P RATING
FLAMMABILITY	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes	NO (metals exempted)
RESISTANCE TO IMPACT	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes	NO (metals exempted)
CORROSION	NO (polymers exempted)	NO (polymers exempted)	NO (polymers exempted)	Yes
GASKET OIL IMMERSION	-	-	Yes	-
GASKET MATERIAL AGING	Yes	Yes	Yes	Yes
INGRESS OF WATER (HOSEDOWN)	Yes	Yes	-	Yes
PROLONGED WATER SUBMERSION	Yes	-	-	Yes
ATOMIZED WATER	-	-	Yes	-

Flammability
All of the following results shall be obtained:
a) The material shall not continue to burn for more than 1 minute after the fifth 5-second application of the test flame, with an interval of 5 seconds between application of the flame.
b) Flaming drops or flaming or glowing particles that ignite surgical cotton 305 mm (12 inch) below the test specimen shall not be emitted by the test sample at any time during the test, and
c) No visible flame shall be observed on the surface of the enclosure opposite to the surface that the test flame is applied during the test. In addition, unless otherwise specified in the relevant end-product standard, no opening greater than 3 mm shall appear after the test and the sample has cooled for 30 seconds.

Resistance to impact
The equipment shall withstand the impact without occurrence of any of the following:
a) Making uninsulated live part accessible to contact (use the accessibility probe of the product standard for this evaluation);
b) Producing a condition that might affect the mechanical performance of the equipment; or
c) Producing a condition that would increase the likelihood of an electric shock.

Corrosion
600-Hour Salt Spray Test
1200-Huor Moist Carbon Dioxide-Sulfur Dioxide-Air Test

Gasket oil immersion
Gasket material, if used in a Type 12, 12K, or 13 enclosure, shall not swell more than 25 percent or shrink more than one percent as a result of immersion in ASTM Reference Oil No. 3 (see ASTM D471 Standard Test Method for Rubber Property-Effect of Liquids for oil specifications) or IRM Immersion 903 (see ASTM D5964) for 70 hours at room temperature.

Gasket material aging
Gasket material used in a Type 2, 3, 3X, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, or 13 enclosure shall be subjected to a temperature of 69 to 70°C (156 to 158°F) in circulating air for 168 hours.

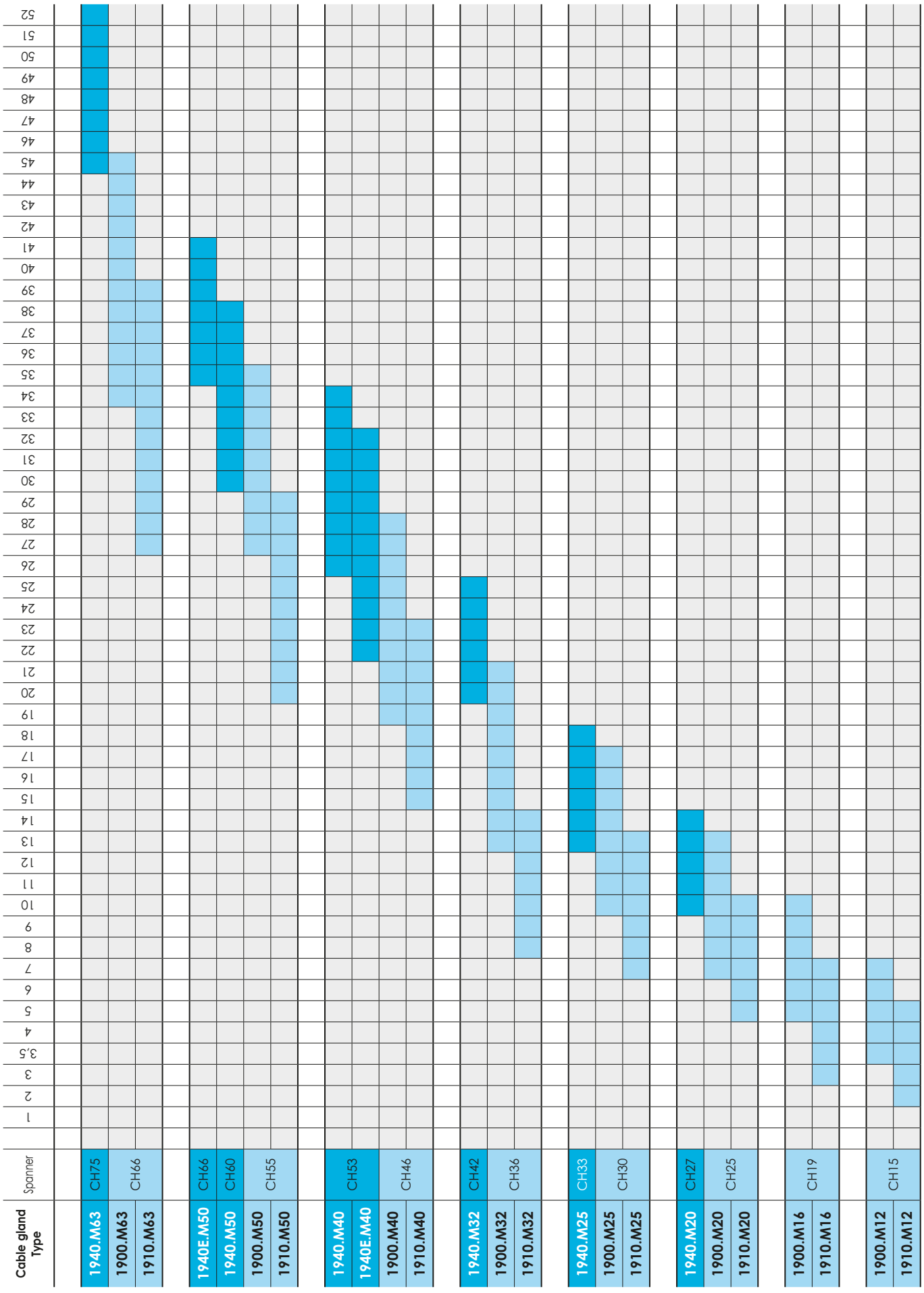
Ingress of water (Hosedown)
The enclosure and its external mechanisms shall be subjected to a stream of water from a hose that has a 25 mm (1in) inside diameter nozzle that delivers at least 240 L (65 gal) per minute.

Prolonged water submersion
Submerge the complete enclosure, connected as intended for use, in water so that the highest point of the enclosure is 1.8 m (6 ft.) below the surface for a period of 24 hours. The enclosure need not be submerged to a depth of 1.8 m (6 ft.) if the equivalent pressure differential between the interior and exterior be achieved by pressuring the water around the enclosure to simulate a depth of 1.8 m (6 ft.).

Atomized water
The enclosure shall be subjected to a spray of atomized water using a nozzle that produces a round pattern 75 to 100 mm (3 to 4 in.) in diameter when measured 300 mm (12 in.) from the nozzle. The air pressure shall be 200 kPa (30 psi). Not less than 4.8 mL/linear cm (5 oz./linear ft.) shall be applied at rate of 11.4 L/hour (3 gal/hour).
The nozzle shall be held from 300 to 380 mm (12 to 15 in.) from the enclosure, and the spray of water shall be directed one time at all point of potential dust entry, such as seams.

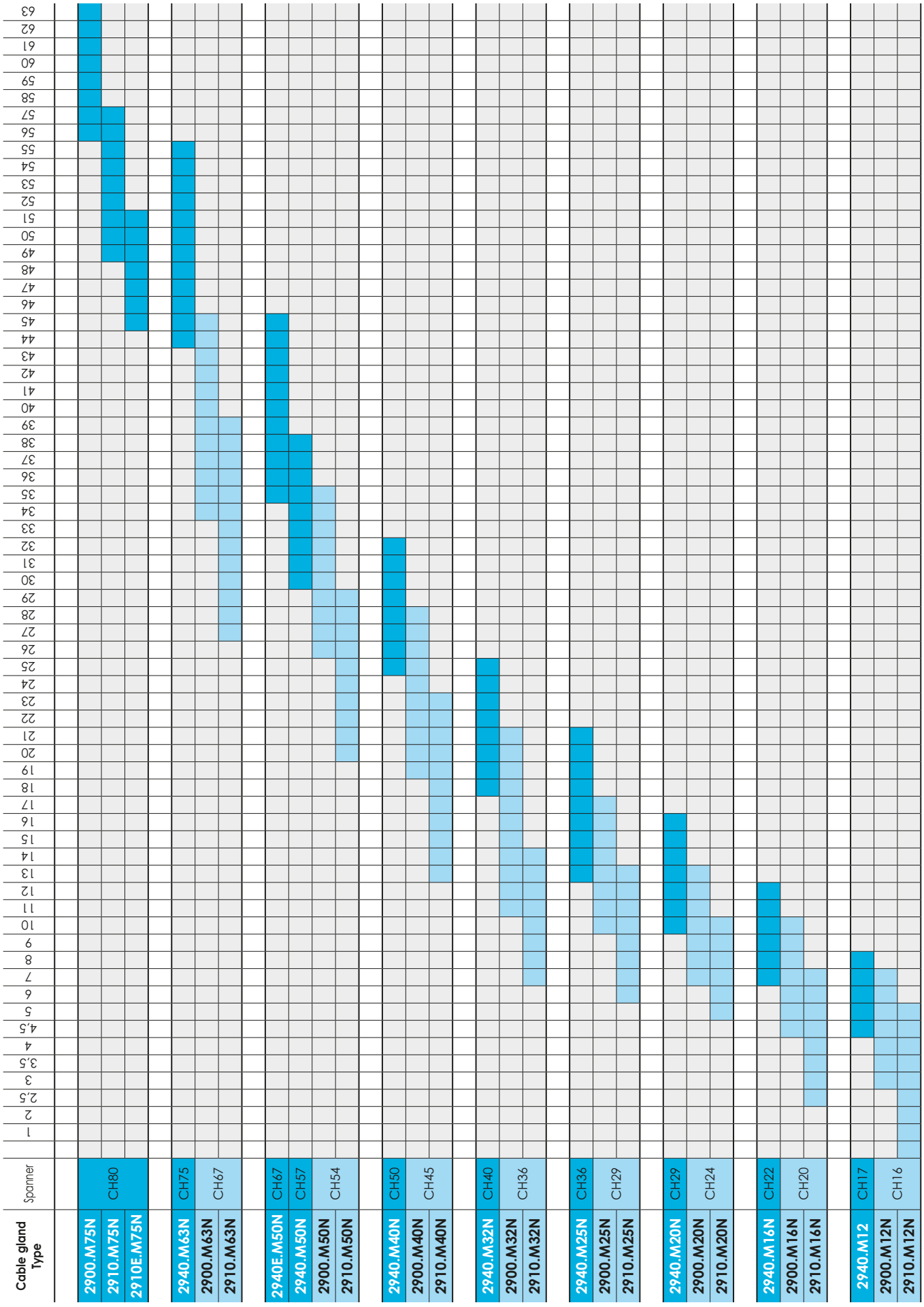
Comparative table of clamping range of plastic cable glands

between the 1940.M version with extended clamping range and the standard 1900.M



Comparative table of clamping range of brass cable glands

between the 2940.M version with extended clamping range and the standard 2900.M



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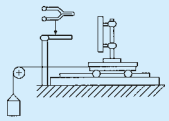
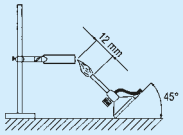
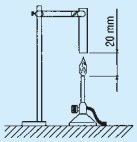
Flammability test for products and materials

TYPE OF TEST	TEST EQUIPMENT	COMPLIANCE WITH STANDARDS	OBJECTIVE OF TEST	TEST RESULTS	TEST CONDITIONS		
					heat source	length of test	characteristic features
CHARACTERISTIC FEATURES		IEC 695-2-1 CEI 50-11 DIN VDE 0471-2-1	Check that abnormal heating produced by overcurrent and bad contacts does not compromise the safety of the insulating material. Lighting test. The wire is pressed against the sample using force and penetrates up to 7 mm.	Any sign of flame starting must stop within 30 sec. of removing the glowing wire. TEST TEMPERATURE • 650° for materials which do not support parts under tension • 750° for materials which support parts under tension of moving sockets and plugs • 850° for materials which support parts under tension of fixed sockets and switches	Glow-wire 4 mm in diameter	Wire applied for 30 seconds	Flame extin-ction time
NEEDLE FLAME		IEC 695-2-1 CEI 50-11	Simulates the effect small fla-mes have which may occur due to internal faults of products in order to judge the fire risk.	• the sample does not catch fire • the flame and incandescent particles do not spread the fire • combustion lasts less than 30 seconds	Bunsen burner flame	Flame ap-plied for (Ta) 5, 10, 20, 30, 60, 120 sec. According to particular standards	The degree of severity: flame appli-cation time (Ta)
UL (UNDERWRITER' LABORATORIES)		UL 94	Measuring of time the sample continues to burn after the direct flame has been removed.	• V0 if the test specimen burns for less than 10 sec. before self-extin-guishing • V1 if it burns for less than 30 sec. • V2 if it burns for less than 30 sec. with incandescent dripping. • HB if it burns for more than 30 se-conds (sample thickness less than 3 mm: max. combustion speed 75 mm/min - sample thickness betwe-en 3 and 13 mm: max. combustion speed 40 mm/min) Note • HB rating: equivalent to ASTM D 635 or IEC 60695-11-10 • Grades V-0, V-1, V-2: equivalent to ASTM D 3801 or IEC 60695-11-10	Bunsen burner flame	Flame ap-plied for 10 seconds twi-ce following	Length of combustion

Recommended torque settings for cable glands

MAXIblock®, spiralblock®, MAXIbrass®, MAXIinox
METRIC THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 60529/A2

	THREAD CABLE GLAND	CABLE GLAND	
		metallic	non-metallic
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	M12 x 1,5	6.0	2.7
	M16 x 1,5	6.0	5.0
	M20 x 1,5	8.0	7.0
	M25 x 1,5	8.0	7.5
	M32 x 1,5	18.0	8.0
	M40 x 1,5	18.0	8.0
	M50 x 1,5	18.0	15.0
	M63 x 1,5	25.0	15.0

MAXIblock®, spiralblock®, MAXIbrass®, MAXIinox
PG THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 60529/A2

	THREAD CABLE GLAND	CABLE GLAND	
		metallic	non-metallic
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	Pg7	6.25	2.5
	Pg9	6.25	3.75
	Pg11	6.25	3.75
	Pg13,5	7.5	5.0
	Pg16	7.5	5.0
	Pg21	10.0	7.5
	Pg29	15.0	8.0
	Pg36	25.0	10.0
	Pg42	25.0	10.0
	Pg48	25.0	15.0

MAXIblock®, spiralblock®
GAS THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 60529/A2

	THREAD CABLE GLAND	NON-METALLIC CABLE GLAND
		torque (Nm)
Torque values apply to mounting in a threaded entry and to use with a locknut	G1/4"	4
	G3/8"	5
	G1/2"	6
	G3/4"	10

Cable glands installation:

1) Before proceeding with the installation, inspect the cable gland; installation must be performed by qualified personnel and with suitable tools.

2) Cable glands must be used in their original supplied condition with no modifications.

3) Torque values listed in the catalogue are intended as the recommended level for reaching the correct IP protection level and achieving the required cable retention properties. As the torque depends on the type of insulation of the conductor used, it is responsibility of the user to define the ideal torque for their specific application.

4) Both the body and head of the cable gland must be correctly tightened; excessive or reduced tightening may compromise the protection level and the cable retention performance.

5) Loosening a cable gland already installed and then tightening again may result in a reduction of the IP protection level achieved and compromise the cable retention properties. In these instances, we recommend replacement of the cable gland.

Operating temperatures:

Dynamic range:
in this temperature range the cable gland withstands shocks and stresses with an energy value equivalent to the declared impact category according to EN 62444.

Static range:
in this temperature range the cable gland, properly installed in compliance with technical requirements, must not be further strained with stress or forces (shock, vibration, pressure, etc.). The same conditions also apply to both the enclosure and the wire to which the cable gland has been assembled.

Recommended torque settings for entry plugs

PLASTIC ENTRY PLUGS METRIC AND PG THREADS, TO OBTAIN IP54 / IP68 INGRESS PROTECTION				
PLASTIC ENTRY PLUGS		TORQUE (Nm)		DEGREE OF PROTECTION
METRIC	Pg	Applied to PLUG	Applied to LOCKNUT	
M12 - M16	Pg7 - Pg9	1	1.5	• IP 54 • IP 68 (if applied with FD sealing rings)
M20 - M25	Pg11 - Pg13,5 - Pg16 - Pg21	1.5	3	
M32 - M40	Pg29	3	6	
M50 - M63	Pg36 - Pg42 - Pg48	6	10	

BRASS ENTRY PLUGS METRIC AND PG THREADS, TO OBTAIN IP54 / IP68 INGRESS PROTECTION				
BRASS ENTRY PLUGS		TORQUE (Nm)		DEGREE OF PROTECTION
METRIC	Pg	Applied to PLUG	Applied to LOCKNUT	
M12 - M16 - M20 - M25	Pg7 - Pg9 - Pg11 Pg13,5 - Pg16 - Pg21	2	4	• IP 54 • IP 68 (if applied with FD sealing rings)
M32 - M40 - M50 - M63	Pg29 - Pg36 - Pg42 - Pg48	3	6	

Recommended torque settings for entry thread enlargers and reducers

RECOMMENDED TORQUE SETTINGS FOR PLASTIC ENTRY THREAD ENLARGERS AND REDUCERS METRIC, TO OBTAIN IP54 / IP68 INGRESS PROTECTION				
	METRIC THREAD MALE - FEMALE	TYPE	TORQUE (Nm)	DEGREE OF PROTECTION
ENTRY THREAD REDUCERS	M16 – M12	1153M1612	2,0	• IP 54 • IP 68 (if applied with FD sealing rings)
	M20 – M12	1153M2012		
	M20 – M16	1153M2016		
	M25 – M12	1153M2512		
	M25 – M16	1153M2516		
	M25 – M20	1153M2520		
	M32 – M16	1153M3216	4,0	
	M32 – M20	1153M3220		
	M32 – M25	1153M3225		
	M40 – M20	1153M4020		
	M40 – M25	1153M4025		
	M40 – M32	1153M4032		
	M50 – M25	1153M5025	7,5	
	M50 – M32	1153M5032		
	M50 – M40	1153M5040		
	M63 – M32	1153M6332		
	M63 – M40	1153M6340		
	M63 – M50	1153M6350		
ENTRY THREAD ENLARGERS	M12 – M16	1173M1216	2,0	
	M16 – M20	1173M1620		
	M20 – M25	1173M2025	4,0	
	M25 – M32	1173M2532		
	M32 – M40	1173M3240		

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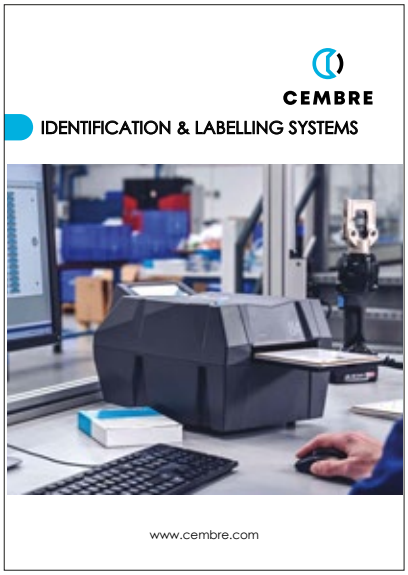


Identification & Labelling

systems

the system includes:

- Thermal transfer printer for sheet media
- Thermal transfer printer for roll media
- Embosser
- Manual system
- Accessories
- Labels

MG4



ROLLY 5000



GENERAL TERMS AND CONDITIONS OF SALE

1. GENERAL TERMS

1.1 For the purpose of these GENERAL TERMS AND CONDITIONS OF SALE (the "Terms and Conditions"), the following definitions shall apply:
- «Sellen»: CEMBRE S.p.A. and its affiliates;
- «Affiliate»: any entity directly or indirectly, through one or more intermediaries, controlling, controlled by, or under common control with CEMBRE S.p.A.;
- «Buyen»: any professional or entrepreneur purchasing the Products from the Seller;
- «Products»: the goods manufactured and/or sold by the Seller;
- «Order(s)»: each proposal for the purchase of the Products submitted by the Buyer to the Seller in writing;
- «Sale(s)»: each single sale agreement entered into further to the receipt by the Buyer of the written order confirmation of the Seller.

1.2 These Terms and Conditions govern the sale of equipment, components, parts, and materials (the "Products") supplied by the Seller to the Buyer. Any specific supply agreement, order confirmation, quotation, these Terms and Conditions and the purchase order form the Sales Agreement ("Agreement") between the parties. In the event of a conflict between these documents, precedence shall apply in accordance with the order listed in the previous sentence.

1.3 CEMBRE's quotation, proposal or order confirmation is conditional on the Buyer's acceptance of these Terms and Conditions. Buyer's silence or acceptance/use of the Products or services related to any purchase order shall constitute tacit approval of these Terms and Conditions.

1.4 Any additional or conflicting terms included in the Buyer's request for quotation/proposal, specifications, purchase order or any other written or oral communication are not binding on CEMBRE unless separately signed by CEMBRE. CEMBRE's failure to object to Buyer's additional or conflicting terms (including the Buyer's Terms and Conditions of Purchase) does not operate as a waiver of any terms contained herein.

2. ORDERING PROCEDURES

2.1 Offers of the Seller are not binding. This shall also apply if the Seller has provided the Buyer with catalogues, technical documentation (e.g. drawings, plans, calculations, calculations, references to DIN standards), other product descriptions or documents - also in electronic form - to which the Seller reserves property rights and copyrights pursuant to Clause 8.

2.2 Unless otherwise agreed, the information in offers and order confirmations shall refer to the contents of the respectively valid price lists, catalogues or other documents - also in electronic form, including technical data sheets, of the Seller.

2.3 All orders must be sent in writing and include all the details for a correct identification of the Products and Services requested. The minimum order amount is € 250.

2.4 The order is an irrevocable proposal to buy, but it is accepted by the Seller only following order acknowledgement / confirmation or execution.

2.5 The Buyer may request in writing to cancel or modify the order only prior to its execution and the Seller may at its own discretion accept or reject such request. Only cancellations and modifications expressly accepted by the Seller in writing shall be valid and effective.

3. PRICING AND PAYMENT TERMS

3.1 Unless otherwise specified in writing, Seller's quotations have a 30-day validity, after which they will automatically expire.

3.2 Prices quoted in price-lists and marketing materials are not binding and cannot be considered a "public offer". Unless otherwise agreed in writing, prices are always quoted based on delivery term FCA (Incoterms latest version) net of any applicable statutory value added /goods and services tax and of any applicable taxes and duties.

3.3 The Seller reserves the right to update the price-list without prior notice; the new release of the price-list will apply to all the Orders placed after the date such new release is issued and sent to the Buyer. Invoices will be issued in accordance with the prices in force on the date of the order confirmation or as otherwise agreed in specific supply agreements.

3.4 In the event of late payment, the Seller will have the right to charge overdue interest in accordance with the provisions of law no. 231/2002. Any further claim for damages caused by delay shall remain unaffected.

3.5 In the event of payment arrears, suspension of payments and if circumstances become known which are likely to reduce the creditworthiness of the customer, the Seller shall be entitled, after having granted a period of grace, to declare all claims arising from the entire business relationship with the customer immediately due for payment. Discount agreements, rebates and the like shall be deemed forfeited in this case.

3.6 Failure to pay or delayed payments above 30 days also entitle the Seller to suspend the delivery of the Products and terminate every single Sale entered into. The suspension of the delivery of the Products or the termination of any Sale shall not entitle the Buyer to claim for any compensation.

3.7 Any complaints regarding the Products and/or their delivery shall not be grounds for suspending or delaying the payment.

3.8 In the event of default or risk of insolvency concerning the Buyer, the Seller will be entitled to:
- demand payment in advance or suitable guarantees; and/or
- suspend deliveries; and/or
- demand immediate payment of all the invoices already issued, regardless of the payment term therein indicated; and/or
- terminate any existing sale agreement.

4. DELIVERY

4.1 Except as otherwise agreed upon in writing between the parties, the Seller shall deliver the Products FCA its premises (INCOTERMS latest version). If required, the Seller shall take care of the shipment of the Products at the Buyer's costs and expenses. In this last case delivery shall be considered to have taken place when the Products are transferred to the forwarder.

4.2 In case of missing or damaged goods during transport, the Buyer must formulate all the necessary reservations on the delivery note of said goods at the time of delivery. Such reservations must also be confirmed in writing to the Seller within 48 hours of the date of the delivery, by registered mail with return receipt.

4.3 The Seller cannot be held liable for delays in deliveries in the following circumstances:
- acts of God or other extraordinary events beyond reasonable control, resulting in interruption of the manufacturing process, including shortage of energy and/or raw materials, pandemics strikes, embargoes or trade restrictions;
- delays due to the Buyer, particularly when the Buyer failed to provide the information required to execute the order;
- overdue payments, pursuant to arts. 1460 and 1461 of the Civil Code.

4.4 Penalties for late delivery may be charged by the Buyer only when expressly agreed in a specific supply agreement, and in any case up to a maximum amount equal to the price of the delayed delivery.

4.5 The Buyer shall not reject partial deliveries or late deliveries. All costs resulting from the rejection of goods will be charged to the Buyer. Excess deliveries for the purpose of rounding up to the packing quantity shall be deemed to be contractual performance and shall be paid by Buyer.

4.6 Goods returned at the request of the Buyer can only be accepted if the Seller has agreed in writing. The returned parts must be in their original packaging, come from the current product range and be in saleable condition. The return shipment must be carriage paid and at the risk of the Buyer. From the purchase price to be refunded, a depreciation fee will be deducted based on the actual conditions of the goods, their age and original price. Depreciation shall not apply to goods returned under section 5 and 6 hereinafter, provided that the return was authorized by the Seller. Custom-made products or articles which are not included in the current catalogue will not be taken back. Returned goods that are not accepted by the Seller will be shipped back to Buyer (freight paid by the Buyer) or scrapped upon the Buyer's authorization.

4.7 In the event of modifications to the order required by the Buyer, the delivery deadline will automatically be extended for the time necessary to implement the required modification.

5. CONFORMITY

5.1 Complaints about apparent defects or non-conformity of the product delivered in relation to the purchase order or the packing slip must be notified to the Seller in writing within 48 hours after receipt of the products, subject to forfeiture. The Buyer loses the right to claim if the goods are not inspected immediately after delivery.

5.2 In the absence of a specific agreement on quality, the features contained in a specification, a product-specific technical data sheet or an equivalent description by the Seller shall be deemed to be the relevant quality. Insignificant deviations shall not constitute a defect.

5.3 All actions regarding non-conformities detected by the Buyer must be agreed upon in advance with the Seller's quality department; in particular, the Buyer must not charge any costs not agreed upon in advance between the Parties.

6. WARRANTY AND LIABILITY

6.1 Unless otherwise agreed upon in writing, the Seller warrants that the Products are free from defects in material, design and manufacturing and fit for use. No guarantee is given herein by the Seller on the conformity of any Product with the law and regulations in countries outside EU and the UK. No other warranties, express or implied, are made with respect to the Products including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

6.2 Unless otherwise agreed upon in writing, the warranty shall be valid for a period of one year from the date of delivery to the Buyer. Warranty is provided only on tools or machines with a serial number or other identification number that allows traceability. The warranty is, however, excluded if the Products have already been processed by the Buyer or incorporated in products, machinery or plants of the Buyer or of third parties.

6.3 Claims for defective Products shall be made in writing within eight working days from discovery.

6.4 The defective Products shall be returned to the Seller at the Buyer's cost upon Seller's request. The Seller's sole obligation (and Buyer's sole remedy) for any breach of warranty under the foregoing warranty shall be to repair (at location designated by Seller) or replace DAP the original point of delivery the defective goods, within a reasonable time. In the event that the Seller, for any reason, is unable to return a repaired or replaced product under warranty to the Buyer, it will proceed at its own discretion to refund the price paid, or replace the product with another having equal or superior characteristics. The Buyer will waive any claim for damage compensation once the warranty has been fulfilled and the Product has been repaired or replaced. The warranty shall not cover defects due to environmental or stress testing, misuse, failure to observe the Seller's instructions regarding the functioning, maintenance and the storage of the Products, repairs or modifications made by the Buyer or a third party without prior written authorization of the Seller, improper installation, transportation or handling.

6.5 Direct interventions on site are not included in the warranty; if expressly requested by the Buyer they are subject to charge, according to the Seller's tariffs.

6.6 Warranty repair/replacements may be suspended in the event of insolvency of the Buyer or overdue invoices.

6.7 Save for the case of fraud or gross negligence, the Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. In any case, the Seller shall not be liable for indirect or consequential damages of whatsoever nature as, by way of example, production losses or unearned profits. In any case, Buyer's right to damages shall be limited to a maximum amount equal to the value of the Products showing defects or faults.

6.8 The Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. The Seller will not, under any circumstances, be liable for the cost of removal or reinstallation of goods or the cost of disassembly or reassembly or for loss of business or goodwill or profits or for cost of inspection or storage or for any incidental and consequential damages of any nature which may arise from the sale of goods to the Buyer. When liability cannot be excluded by virtue of mandatory law provisions, Buyer's right to damages shall in any case be limited to a maximum amount equal to the value of the Products showing defects or faults.

6.9 The Seller has taken out suitable insurance policies covering general liability in connection with the Products.

6.10 Cembre products are intended for professional users (B2B): the applicability of consumer protection regulations, including those related to warranty, is expressly excluded. The sale of Cembre products through channels accessible to consumers is expressly prohibited, and vendors who contravene this prohibition will assume all civil and criminal liability towards third parties and the competent authorities.

7. EXPORT CONTROL REGULATIONS

7.1 The Seller shall not be obligated to fulfil this agreement if such fulfilment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions or restrictions.

7.2 The Buyer is aware that the Products are intended to be sold and used exclusively for civil purposes, to the exclusion of any military or nuclear applications, or applications related to the development and production of chemical weapons and weapons of mass destruction.

7.3 The Buyer is aware that under the EU regulations, re-exportation to Russia and re-exportation for use in Russia of goods or technologies listed in Annexes XI, XX, XXXV and XL of EU Reg. 2014/833, dual-use products and firearms and ammunition listed in Annex I of EU Regulation n. 258/2012 are prohibited. Re-export to Belarus and re-export for use in Belarus of the goods or technologies listed in Annexes XVI. XVII, XXVIII, XXX, as well as firearms and ammunition listed in Annex I of Regulation (EU) No. 258/2012 are also prohibited. The Buyer consequently undertakes to comply with the trade restrictions issued by the EU authorities, as subsequently amended and supplemented.

7.4 If the Buyer transfers the Products to a third party, the Buyer shall comply with all applicable national and international (re-) export control regulations.

7.5 The Buyer shall cooperate with the Seller to provide the information concerning end users, destination and intended use of goods supplied by CEMBRE, in case this is necessary due to customs control activities or export control regulations.

7.6 Violations of this section 7 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

8 INTELLECTUAL PROPERTY, CONFIDENTIALITY AND PRIVACY

8.1 The use of CEMBRE trademarks is governed by the General Terms and Conditions, published on the website https://www.cembre.com/en/terms-and-condition, which the Buyer is obliged to comply with. It is prohibited to relabel and repackage the Products without CEMBRE's written authorization.

8.2 Each party will retain ownership of its Intellectual Property developed before or outside the scope of the sale agreement. If any Intellectual Property is developed under the sale agreement, the parties shall execute a separate agreement regarding the ownership thereof.

8.3 Seller expressly reserves the copyright to its catalogues, technical documentation (e.g. drawings, plans, calculations, data sheets), other product descriptions or documents - also in electronic form. The Buyer is only granted a non-exclusive right of use.

8.4 All drawings and technical documents relating to the Products submitted by one party to the other shall remain exclusive property of the submitting party and can only be used for the purpose for which they were provided. The receiving party is not allowed to use such documents otherwise, to procure copies thereof, to reproduce and to disclose them to a third party without consent of the submitting party. The end user of the Products shall not be deemed as a third party for the purpose of this section.

8.5 Any liability of the Seller is excluded if the Buyer is responsible for the infringement of property rights, in particular because he has modified the object of performance, used it in breach of contract or taken it to a place other than the place of destination without the Seller's consent.

8.6 If the Seller manufactures goods according to drawings, samples or other information provided by the Buyer (OEM products) and if the property rights of third parties are infringed in the process, the Buyer shall indemnify the Seller from all claims for damages resulting from this.

8.7 The Seller warrants that the personal data received from the Buyer will be processed in full compliance with the applicable data protection regulations.

8.8 Violations of this section 8 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

9. APPLICABLE LAW AND JURISDICTION

9.1 The place of performance for the delivery together with any subsequent performance on the part of the Seller is the Seller's registered office.

9.2 Place of jurisdiction is the registered office of the Seller. The Seller is also entitled to take legal action at the Buyer's registered office.

9.3 The legal relations between the Seller and the Buyer shall be governed by Italian law to the exclusion of the U.N. Convention on the International Sale of Goods (CISG).

9.4 The Buyer acknowledges that the CEMBRE Group has adopted a Code of Ethics and an Anti-Corruption Policy and undertakes to comply with the provisions of such documents, available at www.cembre.com, abstaining from any unlawful conducts. Failure to comply with any of the provisions of the Code of Ethics and/or of the Anti-Corruption Policy will result in a serious breach of contractual obligations and will entitle CEMBRE to terminate the contract with immediate effect, without prejudice to compensation for damages.

10. FORCE MAJEURE AND HARDSHIP

10.1 No failure, omission or delay of the Seller in the performance of any obligation shall be deemed a breach of the agreement nor create any liability hereunder, if the failure, omission or delay shall arise from acts of God, laws, rules, regulations or orders of any governmental authority, floods, fires, explosions, storms, earthquakes, acts of war (declared or undeclared), rebellion, insurrections, riot, sabotage, shortages of fuel, power, energy resources, and/or raw material, invasion, epidemic, quarantine, accident, strikes, lockouts, labor disputes, or any other comparable cause beyond the reasonable control of the Seller.

10.2 If, during the term of the contract, events occur which have not been contemplated by the Parties and which fundamentally alter the equilibrium of the contract, thereby placing an excessive burden on the Seller in the performance of its contractual obligations (hardship), the Seller shall have the power to make any revision to the contract that it finds just and equitable in the circumstances, or to terminate the contract at a date and on terms to be fixed.

Rev. n. 3/2024

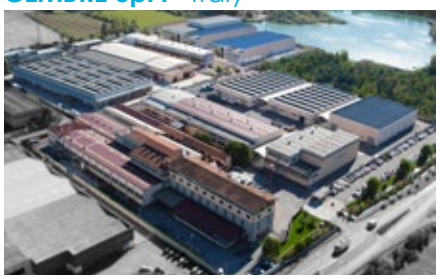
Notes

THE CEMBRE GROUP

PRODUCTION Units

COMMERCIAL Units

CEMBRE SpA - Italy



CEMBRE Ltd - UK



CEMBRE Sarl - France



CEMBRE SLU - Spain



CEMBRE GmbH - Germany



CEMBRE BV - Eindhoven, Netherland



CEMBRE Inc - USA



CEMBRE Co. Ltd. - Shanghai, China



Making the right connections

CEMBRE products are intended for professional users (B2B). The applicability of consumer protection regulations, including those related to warranty, is expressly excluded. Please refer to the manufacturer's website, www.cembre.com, for any information regarding product terms and conditions of sales and warranty. The sale of CEMBRE products through channels accessible to consumers is expressly prohibited, and vendors who contravene this prohibition will assume all civil and criminal liability towards third parties and the competent authorities.

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ISO 9001 • ISO 14001
ISO 45001

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