



**GENERAL
CATALOGUE**
ed. 60



GENERAL CATALOGUE

SINCE 1958 THE BM GROUP MISSION
HAS BEEN THE **DESIGN**, THE **MANUFACTURE**
AND THE **DISTRIBUTION** OF ELECTRICAL CONNECTION
ELEMENTS AND PRODUCTS FOR ELECTRICAL INSTALLATIONS.

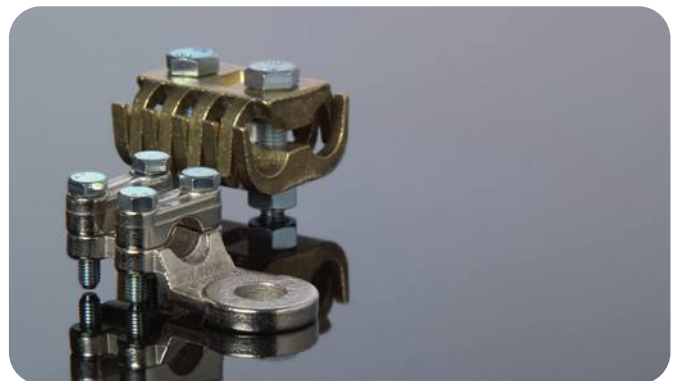
With innovation in our DNA, we strive to devise cutting-edge solutions that foresee market needs and redefine industry standards.

Over the years, thanks to its unfailing dedication, BM's offer has grown without losing sight of our core business: designing, manufacturing and marketing of terminal blocks and terminals. Through this evolution, we have become industry leaders with one of the most complete ranges of connection elements and products for electrical installation.



QUALITY. SAFETY. RELIABILITY.

Quality, safety, reliability and the search for excellence have always been BM's values and led the company to become, step by step, the leading force in the market of electrical equipment. Essential values in every step of the process.



SINCE 1958 A SUCCESS STORY

1958

BM is founded in Rozzano, Milan.
It produced screw connections and had an internal foundry, which is still working.



1990

Cable ties, cable glands and heat-shrink sheaths are added to the catalogue.



1980

Production of terminal blocks begins.



1970

The production of the first bare and pre-insulated connection elements begins and crimping tools are added to the catalogue.



1985

BM achieves the first ENEC certification.



1979

BM achieves the first UL certification.



1991

BM obtains the ISO 9001 certification.



1993

BM obtains the first CSA and IMQ certifications.



2010

SAP implementation.



2014

Opening of the branch in Slovenia.



2018

BM becomes part of Gruppo Beta.



2020

Opening of the branch in Romania.



2000

Tools and fixing product lines are added to the catalogue.



2017

BM adds fittings and insulating tapes to its offer.



2021

Panel boards components line has been expanded.



2013

X-Pro EVO scissors are awarded the prestigious international RedDot Design Award.



reddot design award
honourable mention 2013

BM IN THE WORLD

We are proudly local. Our roots are firmly set in the Milanese reality, but we resolutely reach out to the whole world.

Today, we are in 52 countries through partners and subsidiaries. This highlights how our ongoing commitment to creating innovative and high-quality products has made us the reliable partner of thousands of professionals all over the world.

-  Headquarter
-  Salesforce
-  Branches
-  63 Distributors



TRADITION AND INNOVATION

BM products combine tradition and innovation. On the one hand the tradition and the experience that comes from having been in business for sixty years, on the other the ongoing search for increasingly efficient solutions. The dialogue with end users, who tell us of their needs, is what drives our research and development.

A totally automated, vertical production system enables us to make high quality products in a short time, to the benefit of end users. We have achieved these results thanks to constant and increasing investments in technology, automation, computerization of planning and production control, showing once again the drive of the entire company towards the innovation of industrial processes. Highly specialized personnel ensures efficiency in every phase, from planning to production and control. As a result, we can count on a warehouse of finished products always ready to be delivered.



CERTIFIED QUALITY

CERTIFICATION AND MARKINGS

BM's production units are headquartered in Rozzano, south of Milan, and include a highly automated production, packaging and distribution system for delivering products all over the world.

The continuous innovation of industrial processes has enabled us to manufacture high-quality products by means of integrated production cycles. That, in turn, has

helped us to align with market expectations: our hard work has been acknowledged by Company Quality Certification in compliance with ISO 9001:2000, issued by the CSQ in May 1991, based on strict international standards.

Many others have followed reflecting the constant commitment of the company to guarantee an ever-better quality.

VOLUNTARY SYSTEM CERTIFICATION



The logo means that the company is certified in accordance with ISO 9001 from IMQ. The ISO 9001 standard defines the requirements of a quality management system for an organization.

MANDATORY SAFETY MARKING



The logo means that the product complies with the safety requirements of the applicable Community directives or regulations. The CE marking is mandatory for all products for which a Community directive exists and therefore it is only applicable to certain types of products.



The Colombian government requires products used in electrical installations to be certified by a accredited body in according to RETIE (Technical Regulation for Electrical installations). The logo means that the product complies with RETIE.

VOLUNTARY SAFETY CERTIFICATION



The ENEC logo, acronym for European Norms Electrical Certification, is a voluntary quality label that certifies compliance with a set of harmonized electrical safety standards (EN). Near the logo there is a number that represents the certification body that issued it. For example, 03 is the one of the Italian Institute of Quality Mark.



The logo means that the product obtained the voluntary safety certification from the private American organization UL (Underwriters Laboratories Inc.). If there are no letters near the logo, it means that certification is valid only in US market. If there is only “C”, it means that certification is valid only in Canada market. If there are “C” and “US”, it means that certification is valid both in the Canadian and US markets.



The logo means that the component obtained the voluntary safety certification from the private American organization UL (Underwriters Laboratories Inc.). It is UL that determines whether a finished item is classifiable as a finished product or as a component. If there are no letters near the logo, it means that certification is valid only in US market. If there is only “C”, it means that certification is valid only in Canada market. If there are “C” and “US”, it means that certification is valid both in the Canadian and US markets.



The logo means that the product obtained voluntary safety certification from the Canadian Private Organization Canadian CSA (Canadian Standards Association).



The logo means that the product obtained the voluntary safety certification from the Italian IMQ body.



The logo means that the product obtained the certificate with surveillance for products not included in categories covered by IMQ mark schemes.



The logo means that the product obtained the voluntary safety certification by the German VDE (Verband der Elektrotechnik).



The logo means that the product obtained the voluntary safety certification from the Norwegian private organization Nemko (Norges Elektriske Materiellkontroll).



The logo means that the product obtained the voluntary safety certification from the Danish DEMKO (Denmark's Electrical Equipment Control). DEMKO is currently part of the UL group.



The logo means that the product obtained the voluntary safety certification from the Swedish company Semko (Svenska Elektriska Materielkontrollanstalten).

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TERMINALS

TERMINALS

APPLICATIONS

- Residential and commercial system
- Ground connections

- Electrical cabinets
- Medium voltage
- Ups
- Automation
- Electronics

- Cable harnesses
- OEM solution
- Lighting

- Renewal energy and photovoltaic system



WIDE RANGE OF TERMINALS

For cable sections from 0.25 to 630 mm²

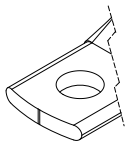
For European and American cables

Many conductive materials (copper, aluminum, bimetallic, brass)

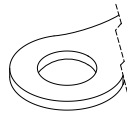
Many types of barrels, palms and quick connectors

Complete crimping system (terminal + crimping tool) for state-of-the-art installations

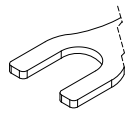
TERMINAL LUG PALMS



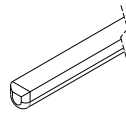
WITH THROUGH HOLE



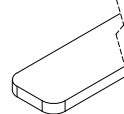
RING



FORK

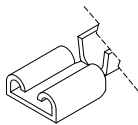


BLADE PIN

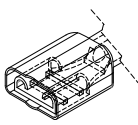


ROUND PIN

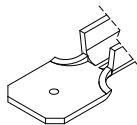
QUICK CONNECTORS



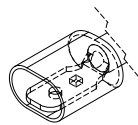
UNINSULATED AND INSULATED
FLAT FEMALE



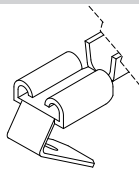
UNINSULATED AND INSULATED
FLAT MALE



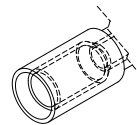
FLAT MALE AND
FEMALE



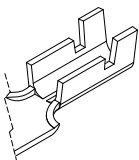
SOCKET



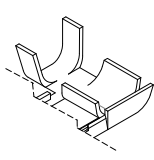
UNINSULATED AND INSULATED PLUG



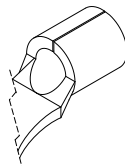
UNINSULATED BARRELS



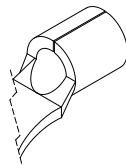
OPEN BARREL



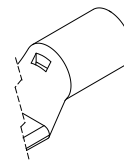
OPEN BARREL BENT
AT 90°



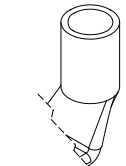
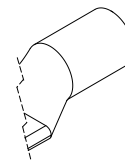
BARREL CLOSED BY
SHEET



BARREL CLOSED BY
SHEET WITH BRAZED
FLAPS

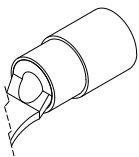


BARREL CLOSED BY TUBE
WITH OR WITHOUT INSPECTION HOLE

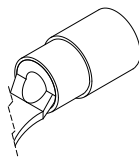


BARREL CLOSED
BY TUBE BENT
AT 90° OR 45°

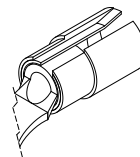
INSULATED BARRELS



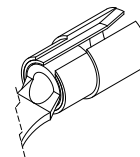
INSULATED BARREL



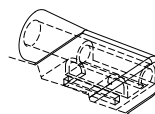
INSULATED BARREL
 EASYENTRY



INSULATED BARREL
WITH END-SLEEVE



INSULATED BARREL
WITH END-SLEEVE
 EASYENTRY

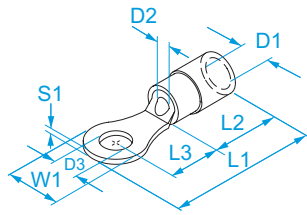


INSULATED BARREL
BENT AT 90°



EasyEntry terminals make easier cable insertion by directing the conductors into the metal part of the barrel preventing the strands from bending. This is also in the terminals with anti-vibrating end-sleeve designed to improve mechanical resistance to vibrations.

TERMINAL LUGS FOR COPPER CONDUCTORS - PVC INSULATED FROM SHEET - RING



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	S1 (mm)	
00101	Red	0.25 ÷ 1.5	(22 - 16)	2.5	#3	8	23	10,4	8,6	4,2	1,95	2,6	0,8	100/1000
00107	Red			3	#4	8	23	10,4	8,6	4,2	1,95	3,15	0,8	100/1000
00109	Red			3	#4	5,5	17,6	10,4	4,4	4,2	1,95	3,2	0,8	100/1000
00113	Red			3.5	#6	8	22,2	10,4	7,8	4,2	1,95	3,6	0,8	100/1000
00119	Red			4	#8	7,4	20,6	10,4	6,5	4,2	1,95	4,3	0,8	100/1000
00125	Red			5	#10	8	21,8	10,4	7,4	4,2	1,95	5,2	0,8	100/1000
00131	Red			6	#12	10	23,7	10,4	8,3	4,2	1,95	6,2	0,8	100/1000
00137	Red			8	5/16"	14	30	10,4	12,6	4,2	1,95	8,3	0,8	100/1000
00143	Red			10	3/8"	14	30,2	10,4	12,8	4,2	1,95	10,4	0,8	100/1000
00201	Blue			1.5 ÷ 2.5	(16 - 14)	2.5	#3	8	23	11	8	4,8	2,45	2,6
00207	Blue	3	#4			8	23,4	11	8,4	4,8	2,45	3,2	0,8	100/1000
00209	Blue	3	#4			6,4	18,5	11	4,3	4,8	2,45	3,2	0,8	100/1000
00213	Blue	3.5	#6			8	23	11	8	4,8	2,45	3,7	0,8	100/1000
00219	Blue	4	#8			8	21,5	11	6,5	4,8	2,45	4,3	0,8	100/1000
00225	Blue	5	#10			9	22,4	11	7,5	4,8	2,45	5,2	0,8	100/1000
00231	Blue	6	#12			10,5	26	11	9,8	4,8	2,45	6,2	0,8	100/1000
00237	Blue	8	5/16"			13	29,8	11	12,3	4,8	2,45	8,2	0,8	100/1000
00243	Blue	10	3/8"			15	33	11	14,5	4,8	2,45	10,5	0,8	50/500
00313	Yellow	4 ÷ 6	(12 - 10)			3.5	#6	8	26,4	14	8,4	6,6	3,5	3,7
00319	Yellow			4	#8	8	26,4	14	8,4	6,6	3,5	4,2	1	50/500
00325	Yellow			5	#10	9,6	27	14	8,2	6,6	3,5	5,2	1	50/500
00331	Yellow			6	#12	11	29,1	14	9,6	6,6	3,5	6,2	1	50/500
00337	Yellow			8	5/16"	14	34,5	14	13,5	6,6	3,5	8,2	1	50/500
00343	Yellow			10	3/8"	19	40	14	16,5	6,6	3,5	10,5	1	100/500



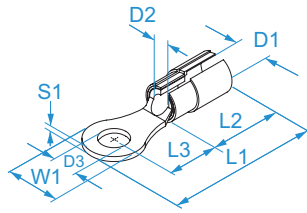
E-B170 (0,5-1,5 mm²)
 E-B171 (1,5-2,5 mm²)
 E-B172 (4-6 mm²)



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• No UL



TERMINAL LUGS FOR COPPER CONDUCTORS - PVC INSULATED AND ANTI-VIBRATING FROM SHEET - RING

TERMINAL MATERIAL: tinned copper

END-SLEEVE MATERIAL: copper

INSULATION MATERIAL: polyvinylchloride (PVC)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

RATED VOLTAGE: 300 V max

OPERATING TEMPERATURE: 75 °C max

ACCORDING TO STD.: UL 486 A-B

ASSEMBLING: double crimping

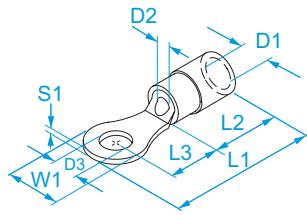
Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	S1 (mm)	
90107	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	5,5	17,5	10	4,75	4,4	1,7	3,2	0,8	100/1000
90113	Red			3.5	#6	5,5	17,5	10	4,75	4,4	1,7	3,7	0,8	100/1000
90119	Red			4	#8	8	21	10	7	4,4	1,7	4,3	0,8	100/1000
90125	Red			5	#10	8	21	10	7	4,4	1,7	5,3	0,8	100/1000
90131	Red			6	#12	11,6	25,5	10	9,7	4,4	1,7	6,4	0,8	100/1000
90137	Red			8	5/16"	11,6	25,5	10	9,7	4,4	1,7	8,4	0,8	100/1000
90143	Red			10	3/8"	13,6	27,3	10	10,5	4,4	1,7	10,5	0,8	100/1000
90207	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	8,5	22	10	7,75	5	2,3	3,2	0,8	100/1000
90213	Blue			3.5	#6	8,5	22	10	7,75	5	2,3	3,7	0,8	100/1000
90219	Blue			4	#8	8,5	22	10	7,75	5	2,3	4,3	0,8	100/1000
90225	Blue			5	#10	9,5	22	10	7,25	5	2,3	5,3	0,8	100/1000
90231	Blue			6	#12	12	27	10	11	5	2,3	6,4	0,8	100/1000
90237	Blue			8	5/16"	12	27	10	11	5	2,3	8,4	0,8	100/1000
90243	Blue			10	3/8"	13,6	29,3	10	12,5	5	2,3	10,5	0,8	100/1000
90319	Yellow	4 ÷ 6	(12 - 10)	4	#8	9,5	27	14	8,25	6,7	3,6	4,3	1	50/500
90325	Yellow			5	#10	9,5	27	14	8,25	6,7	3,6	5,3	1	50/500
90331	Yellow			6	#12	12	30,5	14	10,5	6,7	3,6	6,4	1	50/500
90337	Yellow			8	5/16"	15	35	14	13,5	6,7	3,6	8,4	1	50/500
90343	Yellow			10	3/8"	15	35	14	13,5	6,7	3,6	10,5	1	50/500



file n° E 137735

V0

TERMINAL LUGS FOR COPPER CONDUCTORS - NYLON INSULATED FROM SHEET - RING



TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 105 °C max

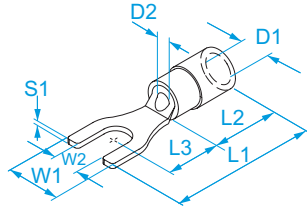
TERMINALS

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	S1 (mm)	
80107	Red	0,25 ÷ 1,5	(22 - 16)	3	#4	8	22,2	10,4	8,6	4,2	1,95	3,2	0,8	100/1000
80113	Red			3,5	#6	8	22,2	10,4	7,8	4,2	1,95	3,7	0,8	100/1000
80119	Red			4	#8	7,4	20,8	10,4	6,5	4,2	1,95	4,3	0,8	100/1000
80125	Red			5	#10	8	22,4	10,4	8	4,2	1,95	5,2	0,8	100/1000
80131	Red			6	#12	10	23,7	10,4	8,6	4,2	1,95	6,2	0,8	100/1000
80137	Red			8	5/16"	14	30	10,4	12,6	4,2	1,95	8,3	0,8	100/1000
80143	Red			10	3/8"	14	30	10,4	12,8	4,2	1,95	10,4	0,8	100/1000
80207	Blue	1,5 ÷ 2,5	(16 - 14)	3	#4	8	23	11	8	4,8	2,45	3,2	0,8	100/1000
80213	Blue			3,5	#6	8	23	11	8	4,8	2,45	3,7	0,8	100/1000
80219	Blue			4	#8	8	21,5	11	6,5	4,8	2,45	4,3	0,8	100/1000
80225	Blue			5	#10	9	23,6	11	7,5	4,8	2,45	5,2	0,8	100/1000
80231	Blue			6	#12	10,5	26	11	9,8	4,8	2,45	6,2	0,8	100/1000
80237	Blue			8	5/16"	13	30	11	12,7	4,8	2,45	8,2	0,8	100/1000
80243	Blue			10	3/8"	15	33	11	14,5	4,8	2,45	10,5	0,8	100/1000
80319	Yellow	4 ÷ 6	(12 - 10)	4	#8	8	26,5	14	8,4	6,6	3,5	4,2	1	100/1000
80325	Yellow			5	#10	10	27,5	14	8,5	6,6	3,5	5,2	1	100/1000
80331	Yellow			6	#12	11	30,6	14	11	6,6	3,5	6,2	1	100/1000
80337	Yellow			8	5/16"	15	37	14	15,3	6,6	3,5	8,2	1	100/1000
80343	Yellow			10	3/8"	19	40	14	16,5	6,6	3,5	10,5	1	100/1000

HALOGEN FREE

105 °C

EASYENTRY

TERMINAL LUGS FOR COPPER CONDUCTORS - PVC INSULATED FROM SHEET - FORK


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00102	Red	0,25 ÷ 1,5	(22 - 16)	2,5	#3	5,6	2,6	20	10,4	6,7	4,2	1,95	0,8	100/1000
00108	Red			3	#4	5,6	3,2	20	10,4	6,7	4,2	1,95	0,8	100/1000
00114	Red			3,5	#6	6,5	3,7	19,4	10,4	6,5	4,2	1,95	0,8	100/1000
00120	Red			4	#8	6,4	4,2	20,9	10,4	6,3	4,2	1,95	0,8	100/1000
00126	Red			5	#10	8	5,2	21,2	10,4	8	4,2	1,95	0,8	100/1000
00132	Red			6	#12	9,2	6,2	22,4	10,4	8,3	4,2	1,95	0,8	100/1000
00202	Blue	1,5 ÷ 2,5	(16 - 14)	2,5	#3	5,6	2,6	23	11	8,4	4,8	2,45	0,8	100/1000
00208	Blue			3	#4	5,6	3,2	23	11	8,4	4,8	2,45	0,8	100/1000
00214*	Blue			3,5	#6	6,6	3,7	20,3	11	5,3	4,8	2,45	0,8	100/1000
00220	Blue			4	#8	6,6	4,2	20,3	11	5,3	4,8	2,45	0,8	100/1000
00226	Blue			5	#10	9,1	5,2	25	11	9,5	4,8	2,45	0,8	100/1000
00232	Blue			6	#12	10	6,3	27	11	11,2	4,8	2,45	0,8	100/1000
00314	Yellow	4 ÷ 6	(12 - 10)	3,5	#6	8,1	3,7	26	14	7,2	6,6	3,5	1	50/500
00320	Yellow			4	#8	8,1	4,2	26	14	7,2	6,6	3,5	1	50/500
00326	Yellow			5	#10	9	5,2	28,5	14	10,5	6,6	3,5	1	50/500
00332	Yellow			6	#12	11	6,3	29,5	14	11	6,6	3,5	1	50/500
00338	Yellow			8	5/16"	15,2	8,2	35,2	14	15	6,6	3,5	1	50/500
00344	Yellow			10	3/8"	19	10,5	38	14	16,6	6,6	3,5	1	100/500



E-B170 (0,5-1,5 mm²)
 E-B171 (1,5-2,5 mm²)
 E-B172 (4-6 mm²)

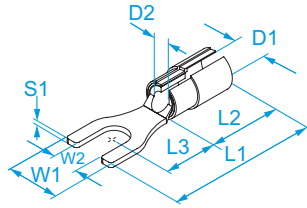


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• No UL



TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED AND ANTI-VIBRATING FROM SHEET · FORK



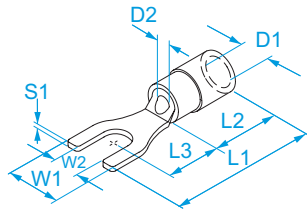
TERMINAL MATERIAL: tinned copper
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B
ASSEMBLING: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
90108	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	5,7	3,2	21,2	10	6,5	4,4	1,7	0,8	100/1000
90114	Red			3.5	#6	6,4	3,7	21,2	10	6,5	4,4	1,7	0,8	100/1000
90120	Red			4	#8	6,4	4,3	21,2	10	6,5	4,4	1,7	0,8	100/1000
90126	Red			5	#10	8,1	5,3	21,2	10	6,5	4,4	1,7	0,8	100/1000
90132	Red			6	#12	11	6,4	25,5	10	8,6	4,4	1,7	0,8	100/1000
90208	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	5,7	3,2	21,2	10	6,5	5	2,3	0,8	100/1000
90220	Blue			4	#8	6,4	4,3	21,2	10	6,5	5	2,3	0,8	100/1000
90226	Blue			5	#10	8,1	5,3	21,2	10	6,5	5	2,3	0,8	100/1000
90232	Blue			6	#12	11	6,4	25,5	10	8,6	5	2,3	0,8	100/1000
90314	Yellow	4 ÷ 6	(12 - 10)	3.5	#6	7,2	3,7	25,7	14	7,2	6,7	3,6	1	50/500
90320	Yellow			4	#8	9	4,3	25,7	14	7,2	6,7	3,6	1	50/500
90326	Yellow			5	#10	9	5,3	25,7	14	7,2	6,7	3,6	1	50/500
90332	Yellow			6	#12	12	6,4	31,5	14	10,5	6,7	3,6	1	50/500



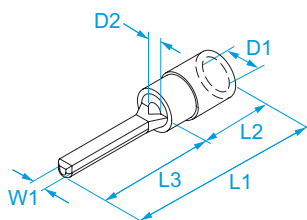
file n° E 137735



TERMINAL LUGS FOR COPPER CONDUCTORS - NYLON INSULATED FROM SHEET - FORK


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 105 °C max

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
80108	Red	0.25 ÷ 1.5	(22 - 16)	3	#4	5,6	3,2	20	10,4	6,7	4,2	1,95	0,8	100/1000
80114	Red			3.5	#6	6,5	3,7	19,4	10,4	6,5	4,2	1,95	0,8	100/1000
80120	Red			4	#8	6,4	4,2	20,9	10,4	6,3	4,2	1,95	0,8	100/1000
80126	Red			5	#10	8	5,2	21,2	10,4	8	4,2	1,95	0,8	100/1000
80132	Red			6	#12	9,2	6,2	22,4	10,4	8,3	4,2	1,95	0,8	100/1000
80208	Blue	1.5 ÷ 2.5	(16 - 14)	3	#4	5,6	3,2	23	11	8,4	4,8	2,45	0,8	100/1000
80214	Blue			3.5	#6	6,6	3,7	20,3	11	5,3	4,8	2,45	0,8	100/1000
80220	Blue			4	#8	6,6	4,2	20,3	11	5,3	4,8	2,45	0,8	100/1000
80226	Blue			5	#10	9,1	5,2	25	11	9,5	4,8	2,45	0,8	100/1000
80232	Blue			6	#12	10	6,3	27	11	11,2	4,8	2,45	0,8	100/1000
80314	Yellow	4 ÷ 6	(12 - 10)	3.5	#6	8,1	3,7	26	14	7,2	6,6	3,5	1	50/500
80320	Yellow			4	#8	8,1	4,2	26	14	7,2	6,6	3,5	1	100/1000
80326	Yellow			5	#10	9	5,2	28,5	14	10,5	6,6	3,5	1	100/1000
80332	Yellow			6	#12	11	6,3	29,5	14	11	6,6	3,5	1	100/1000
80338	Yellow			8	5/16"	15,2	8,2	35,2	14	15	6,6	3,5	1	50/500
80344	Yellow	10	3/8"	19	10,5	38	14	16,6	6,6	3,5	1	100/1000		

TERMINAL LUGS FOR COPPER CONDUCTORS - PVC INSULATED FROM SHEET - ROUND PIN


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ACCORDING TO STD.: UL 486 A-B

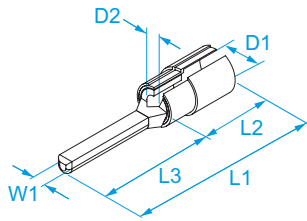
Code	Color	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00150	Red	0.25 ÷ 1.5	(22 - 16)	1,8	22,4	10,4	12	4,2	1,95	100/1000
00151	Red			1,8	20	10,4	9	4,2	1,95	100/1000
00250	Blue	1.5 ÷ 2.5	(16 - 14)	1,8	23	11	12	4,8	2,45	100/1000
00251	Blue			1,8	20	11	9	4,8	2,45	100/1000
00350	Yellow	4 ÷ 6	(12 - 10)	2,6	28	14	14	6,6	3,5	50/500



E-B170 (0,5-1,5 mm²)
 E-B171 (1,5-2,5 mm²)
 E-B172 (4-6 mm²)

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TERMINAL LUGS FOR COPPER CONDUCTORS · PVC INSULATED AND ANTI-VIBRATING FROM SHEET · ROUND PIN

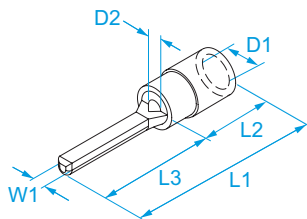


TERMINAL MATERIAL: tinned copper
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 75 °C max
ASSEMBLING: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
90150	Red	0.25 ÷ 1.5	(22 - 16)	1,9	22	10	12	4,4	1,7	100/1000
90151	Red			1,9	19	10	9	4,4	1,7	100/1000
90250	Blue	1.5 ÷ 2.5	(16 - 14)	1,9	22	10	9	5	2,4	100/1000
90251	Blue			1,9	19	10	9	5	2,4	100/1000
90350	Yellow	4 ÷ 6	(12 - 10)	2,7	28	14	14	6,7	3,6	50/500

V0

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED FROM SHEET · ROUND PIN

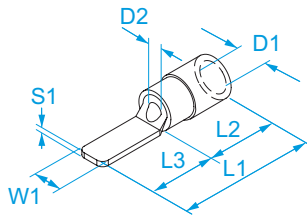


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA 6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300 V max
OPERATING TEMPERATURE: 105 °C max

Code	Color	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80150	Red	0.25 ÷ 1.5	(22 - 16)	1,8	22	10,4	12	4,2	1,95	100/1000
80250	Blue			1,8	23	11	12	4,8	2,45	100/1000
80350	Yellow	4 ÷ 6	(12 - 10)	2,6	28	14	14	6,6	3,6	100/1000

HALOGEN FREE

105 °C

TERMINAL LUGS FOR COPPER CONDUCTORS - PVC INSULATED FROM SHEET - BLADE PIN

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyvinylchloride (PVC)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

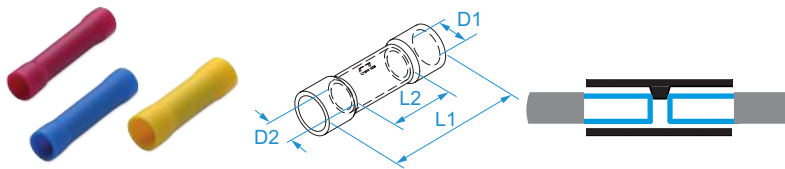
RATED VOLTAGE: 300 V max

OPERATING TEMPERATURE: 75 °C max

Code	Color	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00152	Red	0,25 ÷ 1,5	(22 - 16)	2,8	18,5	9,5	9	4	1,95	0,8	100/1000
00153	Red			3	24	9,5	14,5	4	1,95	0,8	100/1000
00252	Blue	1,5 ÷ 2,5	(16 - 14)	2,8	18,5	9,5	9	4,5	2,45	0,8	100/1000
00253	Blue			2,8	25,5	9,5	16	4,5	2,45	0,8	100/1000
00352	Yellow	4 ÷ 6	(12 - 10)	2,8	24	14	10,4	6,6	3,5	1	50/500
00353	Yellow			4,5	32	14	18	6,6	3,5	1	50/500

V0

BUTT CONNECTORS - PVC INSULATED

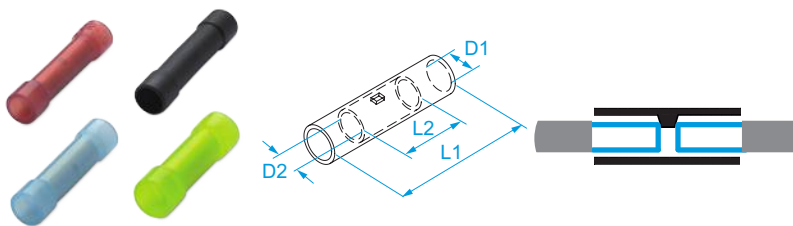


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyvinylchloride (PVC)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
OPERATING TEMPERATURE: 75 °C max
MAX RATED VOLTAGE: 300V
TYPE: with central flush for a right insertion of the conductor.

Code	Color	Section (mm²)	Section (AWG/MCM)	Current (A)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
00160	Red	0.25 ÷ 1.5	(22 - 16)	17	25	15	4,2	1,8	100/1000
00260	Blue	1.5 ÷ 2.5	(16 - 14)	30	26,5	15	4,8	2,5	100/1000
00360	Yellow	4 ÷ 6	(12 - 10)	50	27	15	6,5	3,7	50/500

file n° E 137735

BUTT CONNECTORS - NYLON INSULATED

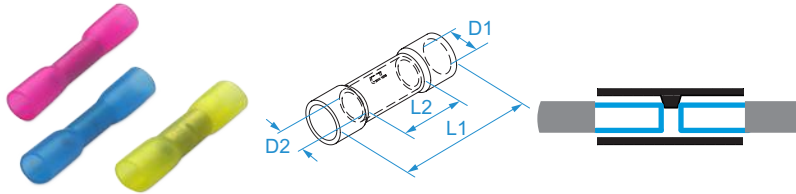


TERMINAL MATERIAL: tinned copper
INSULATION MATERIAL: polyamide (PA6.6)
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
OPERATING TEMPERATURE: 105 °C max
MAX RATED VOLTAGE: 300V
TYPE: with central flush for a right insertion of the conductor.

Code	Color	Section (mm²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
80160*	Red	0.25 ÷ 1.5	(22 - 16)	26	15	3,4	1,7	100/100
80260*	Blue	1.5 ÷ 2.5	(16 - 14)	27	15	4,1	2,4	100/100
80360*	Yellow	4 ÷ 6	(12 - 10)	28	15	5,6	3,6	50/500
80460	Black	10	(8)	43	26	8,2	4,8	100/100
80560	Black	16	(6)	46	29	9	6	100/100
80660	Black	25	(4)	46	29	11,5	7	100/100

* file n° E 137735

105 °C

BUTT CONNECTORS - WITH HEAT SHRINKING INSULATION

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: PE thermo-shrinkable with sealing adhesive

OPERATING TEMPERATURE: from -55 °C to +105 °C

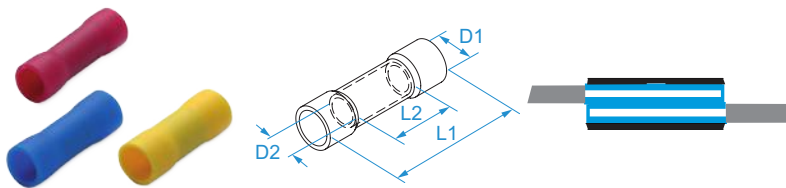
SHRINKING TEMP: 150°C

MAX RATED VOLTAGE: 600V

TYPE: with central flush for a right insertion of the conductor.

HOW TO ASSEMBLE: use heat air gun 1108

Code	Color	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
90160	Red	0.5 ÷ 1.5	(20 - 16)	35	15	4,5	1,8	100/1000
90260	Blue	1.5 ÷ 2.5	(16 - 14)	37	15	5,5	2,5	100/1000
90360	Yellow	4 ÷ 6	(12 - 10)	41	15	6,5	3,7	50/500

HALOGEN FREE
PARALLEL BUTT CONNECTORS - PVC INSULATED

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyvinylchloride (PVC)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2

OPERATING TEMPERATURE: 75 °C max

MAX RATED VOLTAGE: 300V

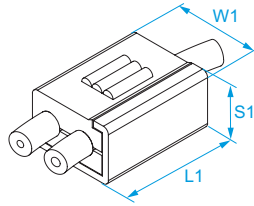
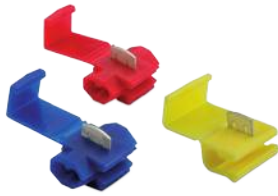
HOW TO ASSEMBLE: overlap the two conductors

Code	Color	Section (mm ²)	Section (AWG/MCM)	Current (A)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
00162	Red	0.25 ÷ 1.5	(22 - 16)	17	18	8	4,2	1,8	100/1000
00262	Blue	1.5 ÷ 2.5	(16 - 14)	30	18	8	4,8	2,5	100/1000
00362	Yellow	4 ÷ 6	(12 - 10)	50	21,5	8,5	6,5	3,7	50/500



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QUICK CONNECTOR WITH INSULATION-PIERCING

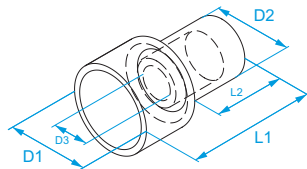


CONDUCTIVE BODY IN: copper
INSULATING HOUSING IN: polypropylene (PP)
RATED VOLTAGE: 300 V

Code	Section (mm ²)	Section (AWG)	Operating temperature	Shells Color	W1 (mm)	L1 (mm)	S1 (mm)	Current (A)	
00110	0.25÷1	(22-18)	90 °C max	Red	20	15,3	10	17	500/500
00210	1.25÷2.5	(18-14)	90 °C max	Blue	20	15,9	10	30	500/500
00310	4÷6	(12-10)	90 °C max	Yellow	21	17,5	13	50	250/250



ONE-WAY TERMINAL BLOCKS · END CONNECTORS · FOR CRIMPING

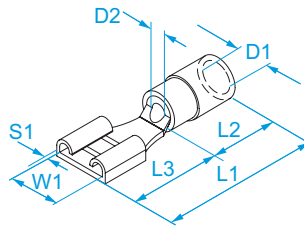


INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: tinned copper
MAX OPERATING TEMPERATURE: 105 °C
MAX RATED VOLTAGE: 600 V
ACCORDING TO STD.: UL486C
ASSEMBLY: the actual connection capacity changes according to the number and section of the conductors as shown in the application note (website)
CRIMPING TOOL: 528

Code	Conductor section (mm ²)	Conductor section (AWG)	Connection capability	ID tool	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	
00170	0,25 ÷ 1,5	(22-16)	2÷5	2	6,2	5,6	2,6	15,2	6,8	100/1000
00270	1,5 ÷ 2,5	(16-14)	2÷7	2	6,5	5,9	3,2	15,2	7	100/1000
00370	2.5 ÷ 6	(12-10)	2÷5	5	9,4	7,3	4	17,8	8,5	50/500
00470*	6 ÷ 10	(20-10)	2÷4		12	9,3	4,6	22,2	9,3	100/1000



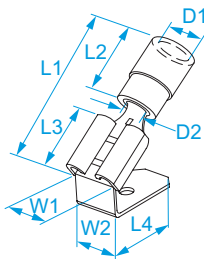
* file n° E 137735

QUICK-CONNECT TERMINALS - PVC INSULATED AND ANTI-VIBRATING - FEMALE


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00190*	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	20,7	10	7,8	3,8	1,9	0,8	100/1000
00105	Red			5.2 x 0.8	0.205x0.032	5,5	18,7	10	6,4	3,8	1,9	0,8	100/1000
00145*	Red			4.8 x 0.5	0.187x0.020	5	19,1	10	6	3,8	1,9	0,8	100/1000
00148*	Red			4.8 x 0.8	0.187x0.032	5	19,1	10	6	3,8	1,9	0,8	100/1000
00395*	Red			2.8 x 0.5	0.110x0.020	3,2	18,5	10	6,4	3,8	1,9	0,8	100/1000
00390*	Red	1.5 ÷ 2.5	(16 - 14)	2.8 x 0.8	0.110x0.032	3,2	18,5	10	6,4	3,8	1,9	0,8	100/1000
00290*	Blue			6.3 x 0.8	0.250x0.032	6,6	20,7	10	7,8	4,3	2,4	0,8	100/1000
00205	Blue			5.2 x 0.8	0.205x0.032	5,5	18,7	10	6,4	4,3	2,4	0,8	100/1000
00245*	Blue			4.8 x 0.5	0.187x0.020	5	18,7	10	6	4,3	2,4	0,5	100/1000
00248*	Blue			4.8 x 0.8	0.187x0.032	5	18,7	10	6	4,3	2,4	0,8	100/1000
00391*	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,6	24,5	14	7,8	6,8	3,5	0,8	50/500
00393	Yellow			9.8 x 1.1	0.375x0.043	10	29	14	12	6,8	3,5	1,1	50/500

* file n° E 143070

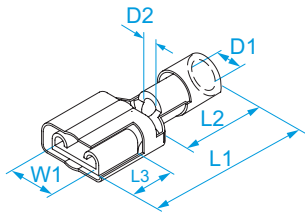
QUICK-CONNECT TERMINALS - PVC INSULATED AND ANTI-VIBRATING - PIGGY-BACKS


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	
00198	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	6,3	22,8	10,5	7,8	8	3,8	1,9	100/1000
00298	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	6,3	22,8	10,5	7,8	8	4,3	2,5	50/500

file n° E 143070

QUICK-CONNECT TERMINALS - PVC INSULATED AND ANTI-VIBRATING - FEMALE TOTALLY INSULATED



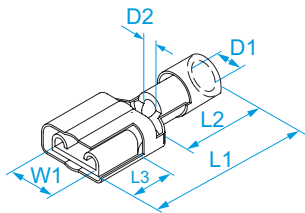
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00191*	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	3,8	1,9	100/1000
00192*	Red			4.8 x 0.8	0.187x0.032	5	20	11	6	3,8	1,9	100/1000
00193	Red			4.8 x 0.5	0.187x0.020	5	20	11	6	3,8	1,9	100/1000
00291*	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	4,5	2,4	50/250
00292*	Blue			4.8 x 0.8	0.187x0.032	5	20	11	6	4,5	2,4	100/1000
00293	Blue			4.8 x 0.5	0.187x0.020	5	20	11	6	4,5	2,4	100/1000
00392*	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,6	25	11	7,8	6	3,5	50/500

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V0 EASYENTRY

QUICK-CONNECT TERMINALS - NYLON INSULATED AND ANTI-VIBRATING - TOTALLY INSULATED FEMALE



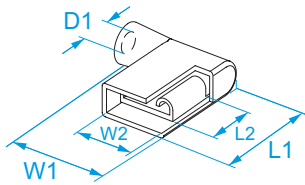
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80191	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	3,8	1,9	100/1000
80192	Red			4.8 x 0.8	0.187x0.032	5	20,5	10,5	6,4	3,8	1,9	100/1000
80193	Red			4.8 x 0.5	0.187x0.020	5	20,5	10,5	6,4	3,8	1,9	100/1000
80390	Red			2.8 x 0.8	0.110x0.032	3,2	19,5	8,5	6	3,8	1,9	100/1000
80395	Red			2.8 x 0.5	0.110x0.020	3,2	19,5	8,5	6	3,8	1,9	100/1000
80291	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	22	11	7,8	4,5	2,4	50/500
80292	Blue			4.8 x 0.8	0.187x0.032	5	20,5	10,5	6,4	4,5	2,4	100/1000
80293	Blue			4.8 x 0.5	0.187x0.020	5	20,5	10,5	6,4	4,5	2,4	100/1000
80392	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,6	24	13	7,8	6	3,5	50/500

105 °C

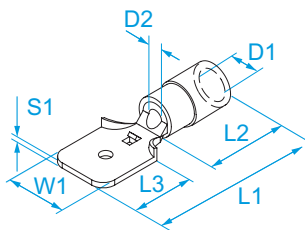
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EASYENTRY

QUICK-CONNECT TERMINALS · NYLON INSULATED · TOTALLY INSULATED FEMALE · FLAG TYPE


TERMINAL MATERIAL: tinned brass
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	
80195	Red	0.5 ÷ 1.5	(20 - 16)	6.3 x 0.8	0.250x0.032	15	6,6	16	7,9	4	100/1000
80295	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	15	6,6	16	7,9	4,5	100/500

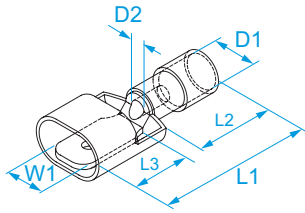

QUICK-CONNECT TERMINALS · PVC INSULATED AND ANTI-VIBRATING · MALE


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	Male (mm)	Male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
00180	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,3	21	10	8	3,8	1,9	0,8	100/1000
00280	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,3	21	10	8	4,3	2,4	0,8	100/1000
00380	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,3	24,5	13,5	8	6	3,5	0,8	50/500



QUICK-CONNECT TERMINALS - NYLON INSULATED AND ANTI-VIBRATING - TOTALLY INSULATED MALE

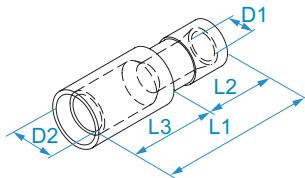


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	Male (mm)	Male (")	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80180	Red	0.25 ÷ 1.5	(22 - 16)	6.3 x 0.8	0.250x0.032	6,3	23	11	8	3,8	1,9	100/1000
80280	Blue	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,3	23	11	8	3,8	1,9	50/500
80380	Yellow	4 ÷ 6	(12 - 10)	6.3 x 0.8	0.250x0.032	6,3	26	13	8	6	3,5	50/500



CYLINDER PLUG - PVC INSULATED AND ANTI-VIBRATING - FEMALE

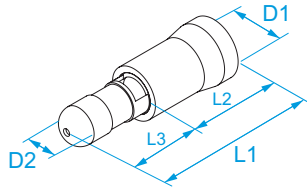


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00140*	Red	0.25 ÷ 1.5	(22 - 16)	23,5	9,5	8,4	3,8	4	100/1000
00240*	Blue	1.5 ÷ 2.5	(16 - 14)	23,5	9,5	8,7	4,3	5	50/500
00244*	Blue			23,5	9,5	8,7	4,3	4	50/500
00340	Yellow	4 ÷ 6	(12 - 10)	25	12	8,2	6,2	5	50/500

* file n° E 137735

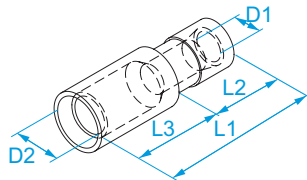


CYLINDER PLUG - PVC INSULATED AND ANTI-VIBRATING - MALE


TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyvinylchloride (PVC)
OPERATING TEMPERATURE: 75 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00130*	Red	0.25 ÷ 1.5	(22 - 16)	21	10	8,7	5,5	4	100/1000
00230*	Blue	1.5 ÷ 2.5	(16 - 14)	21	10	8,7	6	5	100/1000
00234*	Blue			20,7	10	8,7	6	4	100/1000
00330	Yellow	4 ÷ 6	(12 - 10)	24,7	14	8,6	6,7	5	50/500

US * file n° E 137735

V0
CYLINDER PLUG - NYLON INSULATED AND ANTI-VIBRATING - FEMALE


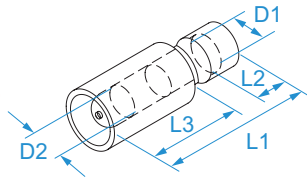
TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80140	Red	0.25 ÷ 1.5	(22 - 16)	23	11	9	4,2	4	50/500
80240	Blue	1.5 ÷ 2.5	(16 - 14)	23	11	9	4,8	5	50/500

105 °C

HALOGEN FREE

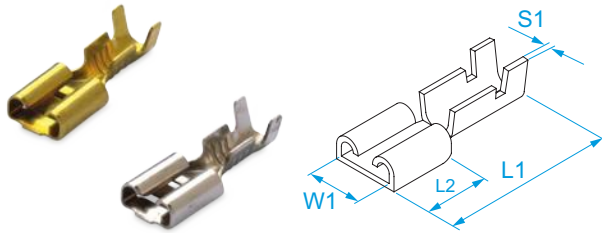
CYLINDER PLUG - NYLON INSULATED AND ANTI-VIBRATING - MALE



TERMINAL MATERIAL: tinned brass
END-SLEEVE MATERIAL: copper
INSULATION MATERIAL: polyamide (PA 6.6)
OPERATING TEMPERATURE: 105 °C max
INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2
RATED VOLTAGE: 300V max
HOW TO ASSEMBLE: double crimping

Code	Color	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
80130	Red	0.25 ÷ 1.5	(22 - 16)	24	11	9	4,2	4	50/500
80230	Blue	1.5 ÷ 2.5	(16 - 14)	24	11	9	4,8	5	50/500



QUICK-CONNECT TERMINALS - UNINSULATED - FEMALE

TERMINAL MATERIAL: tinned/passivated brass

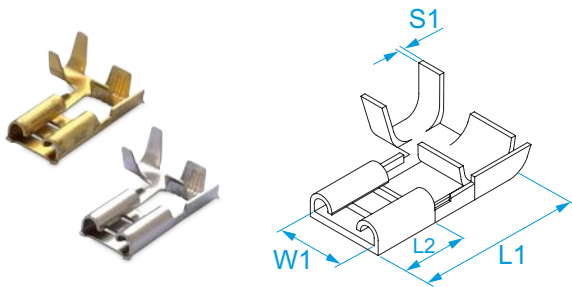
ACCORDING TO STD.: EN 61210: 2010-11

OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	S1 (mm)	
01190	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	200/1000
01191	tinned brass	loose			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	200/1000
02190	passivated brass	reel	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	7000/7000
02191	tinned brass	reel			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	7000/7000
01148	passivated brass	loose	0.5 ÷ 1	(20 - 18)	4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	0,35	200/1000
01149	tinned brass	loose			4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	0,35	200/1000
02148	passivated brass	reel	0.5 ÷ 1	(20 - 18)	4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	0,35	10000/10000
02149	tinned brass	reel			4.8 x 0.8	0.187x0.032	5,8	15,6	6,4	0,35	8000/8000
01145	passivated brass	loose	0.5 ÷ 1	(20 - 18)	4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	0,35	200/1000
01146	tinned brass	loose			4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	0,35	200/1000
02145	passivated brass	reel	0.5 ÷ 1	(20 - 18)	4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	0,35	8000/8000
02146	tinned brass	reel			4.8 x 0.5	0.187x0.020	5,8	15,6	6,4	0,35	8000/8000
01390	passivated brass	loose	0.5 ÷ 1	(20 - 18)	2.8 x 0.8	0.110x0.032	3,7	14	6,5	0,3	200/1000
01391	tinned brass	loose			2.8 x 0.8	0.110x0.032	3,7	14	6,5	0,3	200/1000
02390	passivated brass	reel	0.5 ÷ 1	(20 - 18)	2.8 x 0.8	0.110x0.032	3,7	14	6,5	0,3	15000/15000
02391	tinned brass	reel			2.8 x 0.8	0.110x0.032	3,7	14	6,5	0,3	15000/15000
01395	passivated brass	loose	0.5 ÷ 1	(20 - 18)	2.8 x 0.5	0.110x0.020	3,7	14	6,5	0,3	200/1000
01396	tinned brass	loose			2.8 x 0.5	0.110x0.020	3,7	14	6,5	0,3	200/1000
02395	passivated brass	reel	0.5 ÷ 1	(20 - 18)	2.8 x 0.5	0.110x0.020	3,7	14	6,5	0,3	15000/15000
02396	tinned brass	reel			2.8 x 0.5	0.110x0.020	3,7	14	6,5	0,3	15000/15000
01290	passivated brass	loose	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	100/1000
01291	tinned brass	loose			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	100/1000
02290	passivated brass	reel	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	6500/6500
02291	tinned brass	reel			6.3 x 0.8	0.250x0.032	7,6	19,2	7,6	0,4	6500/6500



QUICK-CONNECT TERMINALS · UNINSULATED · FEMALE · FLAG TYPE

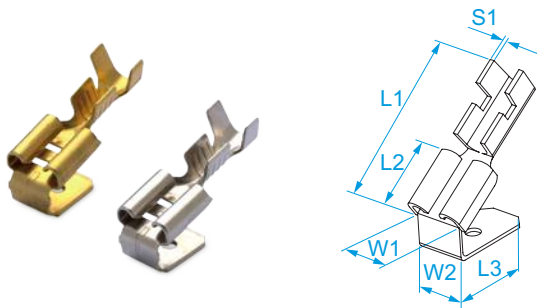


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm ²)	Section (AWG/MCM)	For male (mm)	For male (")	W1 (mm)	L1 (mm)	L2 (mm)	S1 (mm)	
01195	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	200/1000
01196	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	200/1000
02195	passivated brass	reel	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	5500/5500
02196	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	5500/5500
01295	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	100/1000
01296	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	100/1000
02295	passivated brass	reel	1.5 ÷ 2.5	(16 - 14)	6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	5500/5500
02296	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	15	7,6	0,8	5500/5500



QUICK-CONNECT TERMINALS · UNINSULATED · PIGGY-BACKS



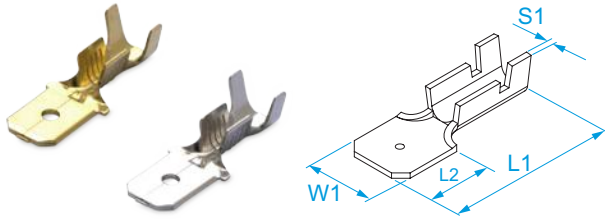
TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Execution	Section (mm ²)	Section (AWG/MCM)	flat female, flat male (mm)	flat female, flat male (")	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	S1 (mm)	
01198	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	100/500
01199	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	100/500
02198	passivated brass	reel	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	1000/1000
02199	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	1000/1000
01298	passivated brass	loose	0.5 ÷ 1	(20 - 18)	6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	100/1000
01299	tinned brass	loose			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	100/1000
02298	passivated brass	reel	1 ÷ 2.5	(18 - 14)	6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	1000/1000
02299	tinned brass	reel			6.3 x 0.8	0.250x0.032	6,6	6,3	19,6	7,6	8	0,8	1000/1000



QUICK-CONNECT TERMINALS - UNINSULATED - MALE

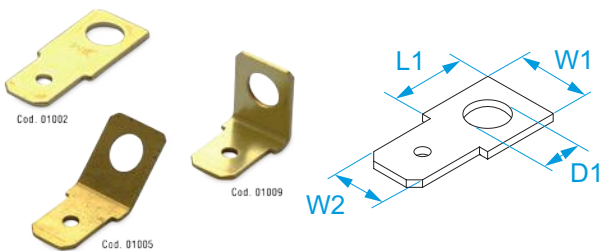
TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C



Code	Material	Execution	Section (mm ²)	Section (AWG/MCM)	Male (mm)	Male (")	W1 (mm)	L1 (mm)	L2 (mm)	S1 (mm)	
01180	passivated brass	loose	0,5 ÷ 1	(20 - 18)	6,3 x 0,8	0,250x0,032	6,3	20,6	8	0,8	200/1000
01181	tinned brass	loose			6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	200/1000
02180	passivated brass	reel	1 ÷ 2,5	(18 - 14)	6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	6000/6000
02181	tinned brass	reel			6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	6000/6000
01280	passivated brass	loose	1 ÷ 2,5	(18 - 14)	6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	200/1000
01281	tinned brass	loose			6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	200/1000
02280	passivated brass	reel	1 ÷ 2,5	(18 - 14)	6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	6000/6000
02281	tinned brass	reel			6,3 x 0,8	0,250x0,032	6,3	20,6	8,2	0,8	6000/6000


QUICK-CONNECT TERMINALS - UNINSULATED - MALE-PANEL

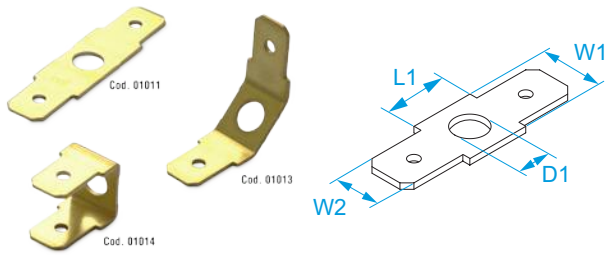
TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C



Code	Material	Male (mm)	Male (")	W1 (mm)	W2 (mm)	L1 (mm)	D1 (mm)	
01002	passivated brass	6,3 x 0,8	0,250x0,032	8	6,3	6,3	4,3	100/1000
02002	tinned brass	6,3 x 0,8	0,250x0,032	8	6,3	6,3	4,3	100/1000
01005	passivated brass	6,3 x 0,8	0,250x0,032	8	6,3	6,3	4,3	100/1000
02005	tinned brass	6,3 x 0,8	0,250x0,032	8	6,3	6,3	4,3	100/1000
01009	passivated brass	6,3 x 0,8	0,250x0,032	8	6,3	6,3	4,3	100/1000
02009	tinned brass	6,3 x 0,8	0,250x0,032	8	6,3	6,3	4,3	100/1000



QUICK-CONNECT TERMINALS - UNINSULATED - MALE-PANEL-MALE

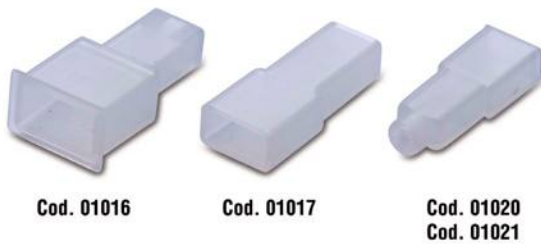


TERMINAL MATERIAL: tinned/passivated brass
ACCORDING TO STD.: EN 61210: 2010-11
OPERATING TEMPERATURE: da -40 °C a +110 °C

Code	Material	Male (mm)	Male (")	W1 (mm)	W2 (mm)	L1 (mm)	D1 (mm)	
01011	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02011	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
01013	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02013	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
01014	passivated brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000
02014	tinned brass	6.3 x 0.8	0.250x0.032	8	6,3	6,3	4,3	100/1000



ACCESSORIES FOR QUICK CONECT TERMINALS: POLYETHYLENE SLEEVES



MATERIAL: polyethylene
INSULATION SELF-EXTINGUISHING GRADE: UL 94 HB
MAX OPERATING TEMPERATURE: 60°C
COLOR: natural
RATED VOLTAGE: 50V

Code	Connector type	For terminal (mm)	For terminal (")	
01020	female	2.8	0.11	1000/1000
01021	female	4.8	0.187	1000/1000
01017	female	6.3	0.25	1000/1000
01016	male	6.3	0.25	500/500

ACCESSORIES FOR QUICK CONECT TERMINALS: NYLON SLEEVES

Cod. 01018
Cod. 01019
**Cod. 01022
Cod. 01023**
MATERIAL: PA6.6

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2, IEC 695-2-1 at 850°C and IEC 695-2-2

MAX OPERATING TEMPERATURE:105°C

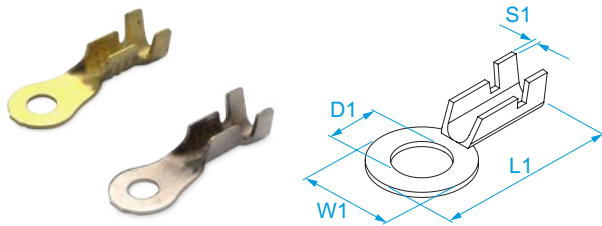
COLOR: natural

RATED VOLTAGE:450V

Code	Connector type	For terminal (mm)	For terminal (")	
01019	female	2.8	0.11	1000/1000
01023	female	4.8	0.187	1000/1000
01022	female	6.3	0.25	500/500
01018	female flag	6.3	0.25	500/500

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED FROM SHEET - OPEN BRASS

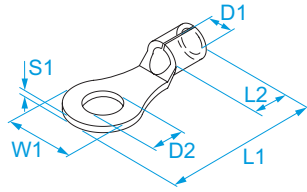
TERMINAL MATERIAL: tinned/passivated brass
OPERATING TEMPERATURE: from -50 °C to +150 °C



TERMINALS

Code	Material	Execution	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	D1 (mm)	S1 (mm)	
91103	passivated brass	loose	0.75 ÷ 1	(18)	3	#4	8	21	3,2	0,6	200/2000
91113	tinned brass	loose			3	#4	8	21	3,2	0,6	200/2000
92103	passivated brass	reel	0.75 ÷ 1	(18)	3	#4	7	17,7	3,2	0,5	8000/8000
92113	tinned brass	reel			3	#4	7	17,7	3,2	0,5	8000/8000
91104	passivated brass	loose	0.75 ÷ 1	(18)	4	#8	8,7	20	4,3	0,6	200/2000
91114	tinned brass	loose			4	#8	8,7	20	4,3	0,6	200/2000
92104	passivated brass	reel			4	#8	7	17,7	4,2	0,5	8000/8000
92114	tinned brass	reel			4	#8	7	17,7	4,2	0,5	8000/8000
91105	passivated brass	loose	0.75 ÷ 1	(18)	5	#10	8,7	20	5,2	0,6	200/2000
91115	tinned brass	loose			5	#10	8,7	20	5,2	0,6	200/2000
92105	passivated brass	reel			5	#10	7	17,7	5,2	0,5	8000/8000
92115	tinned brass	reel			5	#10	7	17,7	5,2	0,5	8000/8000
91203	passivated brass	loose	1 ÷ 2.5	(18 - 14)	3	#4	8	21	3,2	0,5	200/2000
91213	tinned brass	loose			3	#4	8	21	3,2	0,5	200/2000
92203	passivated brass	reel			3	#4	7	17,7	3,2	0,5	5000/5000
92213	tinned brass	reel			3	#4	7	17,7	3,2	0,5	5000/5000
91204	passivated brass	loose	1 ÷ 2.5	(18 - 14)	4	#8	8,7	20	4,3	0,6	200/2000
91214	tinned brass	loose			4	#8	8,7	20	4,3	0,6	200/2000
92204	passivated brass	reel			4	#8	7	17,7	4,2	0,5	5000/5000
92214	tinned brass	reel			4	#8	7	17,7	4,2	0,5	5000/5000
91205	passivated brass	loose	1 ÷ 2.5	(18 - 14)	5	#10	8,7	20	5,2	0,6	200/2000
91215	tinned brass	loose			5	#10	8,7	20	5,2	0,6	200/2000
92205	passivated brass	reel			5	#10	7	17,7	5,2	0,5	5000/5000
92215	tinned brass	reel			5	#10	7	17,7	5,2	0,5	5000/5000

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED FROM SHEET - RING
TERMINAL MATERIAL: tinned copper

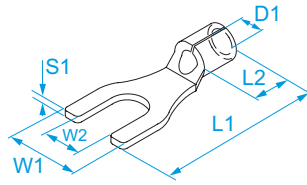
OPERATING TEMPERATURE: from -50 °C to +150 °C


Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)			
01101	0.5 ÷ 1.5	(20 - 16)	2.5	#3	8	17,2	5,2	1,9	2,6	0,8	200/1000		
01107			3	#4	8	17,2	5,2	1,9	3,2	0,8	200/1000		
01113			3.5	#6	8	17,2	5,2	1,9	3,7	0,8	200/1000		
01119			4	#8	7,4	15,4	5,2	1,9	4,3	0,8	200/1000		
01125			5	#10	8,5	17,4	5,2	1,9	5,2	0,8	200/1000		
01131			6	#12	10	18,5	5,2	1,9	6,2	0,8	200/1000		
01137			8	5/16"	14	25	5,2	1,9	8,2	0,8	200/1000		
01143			10	3/8"	14	25	5,2	1,9	10,5	0,8	200/1000		
01201			1.5 ÷ 2.5	(16 - 14)	2.5	#3	8	17,2	5,2	2,4	2,6	0,8	200/1000
01207					3	#4	8	17,2	5,2	2,4	3,2	0,8	200/1000
01213	3.5	#6			8	17,2	5,2	2,4	3,7	0,8	200/1000		
01219	4	#8			8	15,7	5,2	2,4	4,3	0,8	200/1000		
01225	5	#10			9	17,2	5,2	2,4	5,2	0,8	200/1000		
01231	6	#12			10,5	20,3	5,2	2,4	6,2	0,8	200/1000		
01237	8	5/16"			13	24,4	5,2	2,4	8,2	0,8	200/1000		
01243	10	3/8"			15	26,8	5,2	2,4	10,5	0,8	200/1000		
01313	4 ÷ 6	(12 - 10)			3.5	#6	8	18,7	6,5	3,5	3,7	1	100/1000
01319					4	#8	8	18,7	6,5	3,5	4,2	1	100/1000
01325			5	#10	10	20	6,5	3,5	5,2	1	100/1000		
01331			6	#12	11	23	6,5	3,5	6,2	1	100/1000		
01337			8	5/16"	15	29,3	6,5	3,5	8,2	1	100/1000		
01343			10	3/8"	19	32	6,5	3,5	10,5	1	100/1000		

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED FROM SHEET · FORK

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

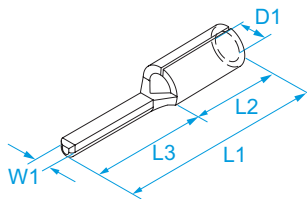


Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	S1 (mm)	
01102	0.25 ÷ 1.5	(22 - 16)	2.5	#3	5,6	2,6	14,6	5,2	1,9	0,8	200/1000
01108			3	#4	5,6	3,2	14,6	5,2	1,9	0,8	200/1000
01114			3.5	#6	6,5	3,7	14,9	5,2	1,9	0,8	200/1000
01120			4	#8	6,5	4,2	15,7	5,2	1,9	0,8	200/1000
01126			5	#10	8	5,2	16,2	5,2	1,9	0,8	200/1000
01132			6	#12	9,2	6,2	17,5	5,2	1,9	0,8	200/1000
01202	1.5 ÷ 2.5	(16 - 14)	2.5	#3	5,6	2,6	17,2	5,2	2,4	0,8	200/1000
01208			3	#4	5,6	3,2	17,2	5,2	2,4	0,8	200/1000
01214			3.5	#6	6,5	3,7	14,3	5,2	2,4	0,8	200/1000
01220			4	#8	6,5	4,2	15,7	5,2	2,4	0,8	200/1000
01226			5	#10	9,1	5,2	19,2	5,2	2,4	0,8	200/1000
01232			6	#12	10	6,2	21	5,2	2,4	0,8	200/1000
01314	4 ÷ 6	(12 - 10)	3.5	#6	8	3,7	19,6	6,5	3,5	1	100/1000
01320			4	#8	8	4,2	18,6	6,5	3,5	1	100/1000
01326			5	#10	9	5,2	21,1	6,5	3,5	1	100/1000
01332			6	#12	11	6,2	22,3	6,5	3,5	1	100/1000
01338			8	5/16"	15,2	8,2	27,5	6,5	3,5	1	100/200
01344			10	3/8"	19	10,2	30,2	6,5	3,5	1	100/1000

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED FROM SHEET · ROUND PIN

TERMINAL MATERIAL: tinned copper

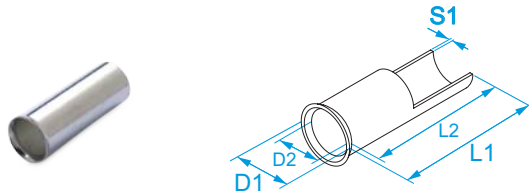
OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	
01150	0.25 ÷ 1.5	(22 - 16)	1,8	17,3	5,2	12	1,8	200/1000
01151			1,8	14,2	5,2	9	1,8	200/1000
01250	1.5 ÷ 2.5	(16 - 14)	1,8	17,3	5,2	12	2,4	200/1000
01251			1,8	14,2	5,2	9	2,4	200/1000
01350	4 ÷ 6	(12 - 10)	2,6	20,5	6,5	12,5	3,6	100/1000

END-SLEEVES FOR COPPER CONDUCTORS - UNINSULATED - SINGLE CABLE
TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to 150 °C

ACCORDING TO STD.: DIN 46228-1 (tubular ferrules without plastic sleeve up to 50mm²), UL486F (bare and covered ferrules)


Code	Section (mm ²)	Section (AWG/MCM)	Section not foreseen by DIN	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
01501•	0,5	(20)		6	5,3	2,1	1	0,15	1000/10000
01502	0,75	(18)		6	5,3	2,3	1,2	0,15	1000/10000
01503	1	(18)		10	9,3	2,5	1,4	0,15	1000/10000
01504				7	6	2,8	1,7	0,15	1000/10000
01505	1,5	(16)		10	9	2,8	1,7	0,15	1000/10000
01506				7	6	3,4	2,2	0,15	1000/10000
01507	2,5	(14)		12	11	3,4	2,2	0,15	1000/10000
01508				9	8	4	2,8	0,2	500/5000
01509	4	(12)		12	11	4	2,8	0,2	500/5000
01510				12	11	4,7	3,5	0,2	250/2500
01511	6	(10)		15	14	4,7	3,5	0,2	250/2500
01512				15	13,8	5,8	4,5	0,2	250/2500
01513	10	(8)		18	16,8	5,8	4,5	0,2	200/2000
01514				15	13,5	7,5	5,8	0,2	100/1000
01515	16	(6)		18	16,5	7,5	5,8	0,2	100/1000
01516	25	(4)		18	16	9,5	7,3	0,2	100/500
01517	35	(2)		18	16	11	8,3	0,2	100/500
01518	50	(1/0)		25	22	13	10,3	0,3	100/300
01519•*	70	(2/0)	√	30	28	13,5	12,5	0,5	100/300
01520•*	95	(3/0)	√	30	28	17,5	14,5	0,5	100/100
01521•*	120	(4/0)	√	30	28	19,5	17	0,5	100/100

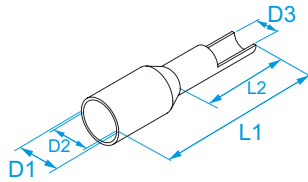


file n° E 506333

• No UL

* No CSA

END-SLEEVES FOR COPPER CONDUCTORS - INSULATED - SINGLE CABLE



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105 °C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules), CSA C22.2 No.291-14 (bare and covered ferrules)

TERMINALS

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
005003	Grey	√	-	-	0,14	(26)	10	6	2,1	1,6	0,7	500/5000
00701	Brown	-	√	-			10	6	2,1	1,6	0,7	500/5000
005001	Grey	√	-	-	0,25	(24)	12	8	2,5	1,6	0,7	500/5000
005004	Light blue	√	-	-			10	6	2,3	1,8	0,75	500/5000
007034	Yellow	-	√	-	0,34	(22)	10	6	2,3	1,8	0,75	500/5000
00500	Light blue	√	-	-			12	8	2,5	1,8	0,75	500/5000
005005	Turquoise	√	-	-	0,5	(20)	10	6	2,5	2	0,8	500/5000
007036	Green	-	√	-			12	8	2,5	2	0,8	500/5000
005002	Turquoise	√	-	-	0,75	(18)	12	6	3,1	2,6	1	500/5000
005012	Orange	√	-	-			12	6	3,1	2,6	1	500/5000
006011	White	-	√	√	1	(18)	12	6	3,1	2,6	1	500/5000
00501	Orange	√	-	-			14	8	3,1	2,6	1	500/5000
00601	White	-	√	√	1,5	(16)	14	8	3,1	2,6	1	500/5000
005011	Orange	√	-	-			16	10	3,1	2,6	1	500/5000
006012	White	-	√	√	2,5	(14)	16	10	3,1	2,6	1	500/5000
005021	White	√	-	-			12	6	3,3	2,8	1,2	500/5000
007021	Light blue	-	√	-	2,5	(14)	12	6	3,3	2,8	1,2	500/5000
006021	Grey	-	-	√			12	6	3,3	2,8	1,2	500/5000
00502	White	√	-	-	2,5	(14)	14	8	3,3	2,8	1,2	500/5000
00702	Light blue	-	√	-			14	8	3,3	2,8	1,2	500/5000
00602	Grey	-	-	√	2,5	(14)	14	8	3,3	2,8	1,2	500/5000
005022	White	√	-	-			16	10	3,3	2,8	1,2	500/5000
007022	Light blue	-	√	-	2,5	(14)	16	10	3,3	2,8	1,2	500/5000
006022	Grey	-	-	√			16	10	3,3	2,8	1,2	500/5000
005023	White	√	-	-	2,5	(14)	18	12	3,3	2,8	1,2	500/5000
007023	Light blue	-	√	-			18	12	3,3	2,8	1,2	500/5000
006023	Grey	-	-	√	2,5	(14)	18	12	3,3	2,8	1,2	500/5000
005031	Yellow	√	-	-			2,5	(14)	12	6	3,5	3
006031	Red	-	√	√	12	6			3,5	3	1,4	500/5000
00503	Yellow	√	-	-	2,5	(14)	14	8	3,5	3	1,4	500/5000
00603	Red	-	√	√			14	8	3,5	3	1,4	500/5000
005032	Yellow	√	-	-	2,5	(14)	16	10	3,5	3	1,4	500/5000
006032	Red	-	√	√			16	10	3,5	3	1,4	500/5000
005033	Yellow	√	-	-	2,5	(14)	18	12	3,5	3	1,4	500/5000
006033	Red	-	√	√			18	12	3,5	3	1,4	500/5000
005042	Red	√	-	-	2,5	(14)	12	6	4	3,5	1,7	500/5000
006042	Black	-	√	√			12	6	4	3,5	1,7	500/5000
00504	Red	√	-	-	2,5	(14)	14	8	4	3,5	1,7	500/5000
00604	Black	-	√	√			14	8	4	3,5	1,7	500/5000
005041	Red	√	-	-	2,5	(14)	16	10	4	3,5	1,7	500/5000
006041	Black	-	√	√			16	10	4	3,5	1,7	500/5000
005043	Red	√	-	-	2,5	(14)	18	12	4	3,5	1,7	500/5000
006043	Black	-	√	√			18	12	4	3,5	1,7	500/5000
00505	Red	√	-	-	2,5	(14)	24	18	4	3,5	1,7	250/2500
00605	Black	-	√	√			24	18	4	3,5	1,7	250/2500
00506	Blue	√	-	√	2,5	(14)	14	8	4,7	4,2	2,2	250/2500
00706	Grey	-	√	-			14	8	4,7	4,2	2,2	250/2500
005062	Blue	√	-	√	2,5	(14)	16	10	4,7	4,2	2,2	250/2500
007071	Grey	-	√	-			16	10	4,7	4,2	2,2	250/2500

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
005061	Blue	✓	-	✓	2,5	(14)	18	12	4,7	4,2	2,2	250/2500
007061	Grey	-	✓	-			18	12	4,7	4,2	2,2	250/2500
00507	Blue	✓	-	✓			24	18	4,7	4,2	2,2	200/2000
00707	Grey	-	✓	-			24	18	4,7	4,2	2,2	200/2000
00508	Grey	✓	-	✓	4	(12)	17	10	5,4	4,8	2,8	200/2000
00708	Orange	-	✓	-			17	10	5,4	4,8	2,8	200/2000
005081	Grey	✓	-	✓			20	12	5,4	4,8	2,8	200/1000
007081	Orange	-	✓	-			20	12	5,4	4,8	2,8	200/1000
00509	Grey	✓	-	✓	6	(10)	26	18	5,4	4,8	2,8	100/1000
00709	Orange	-	✓	-			26	18	5,4	4,8	2,8	100/1000
00510	Black	✓	-	-			20	12	6,9	6,3	3,5	100/1000
00710	Green	-	✓	-			20	12	6,9	6,3	3,5	100/1000
00610	Yellow	-	-	✓	10	(8)	20	12	6,9	6,3	3,5	100/1000
00511	Black	✓	-	-			26	18	6,9	6,3	3,5	100/1000
00711	Green	-	✓	-			26	18	6,9	6,3	3,5	100/1000
00611	Yellow	-	-	✓			26	18	6,9	6,3	3,5	100/1000
00512	Ivory	✓	-	-	16	(6)	22	12	8,4	7,6	4,5	50/500
00712	Brown	-	✓	-			22	12	8,4	7,6	4,5	50/500
00612•	Red	-	-	✓			22	12	8,4	7,6	4,5	50/500
00513	Ivory	✓	-	-			28	18	8,4	7,6	4,5	50/500
00713	Brown	-	✓	-	25	(4)	28	18	8,4	7,6	4,5	50/500
00613	Red	-	-	✓			28	18	8,4	7,6	4,5	50/500
00514•	Green	✓	-	-			24	12	9,6	8,8	5,8	50/500
00714	Ivory	-	✓	-			24	12	9,6	8,8	5,8	50/500
00614	Blue	-	-	✓	35	(2)	24	12	9,6	8,8	5,8	50/500
00515•	Green	✓	-	-			28	18	9,6	8,8	5,8	50/500
00715	Ivory	-	✓	-			28	18	9,6	8,8	5,8	50/500
00615	Blue	-	-	✓			28	18	9,6	8,8	5,8	50/500
006163•	Yellow	✓	-	✓	50	(1/0)	26	12	12	11,2	7,3	100/500
00516	Brown	✓	-	-			30	16	12	11,2	7,3	100/500
00716	Black	-	✓	-			30	16	12	11,2	7,3	100/500
00616	Yellow	-	-	✓			30	16	12	11,2	7,3	100/500
005161	Brown	✓	-	-	70	(2/0)	30	18	12	11,2	7,3	100/500
007161	Black	-	✓	-			30	18	12	11,2	7,3	100/500
006161	Yellow	-	-	✓			30	18	12	11,2	7,3	100/500
005162	Brown	✓	-	-			36	22	12	11,2	7,3	100/500
007162	Black	-	✓	✓	95	(3/0)	36	22	12	11,2	7,3	100/500
006162	Yellow	-	-	✓			36	22	12	11,2	7,3	100/500
006173•	Red	-	✓	✓			26	12	13,5	12,7	8,3	100/500
00517	Beige	✓	-	-			30	16	13,5	12,7	8,3	100/500
00617	Red	-	✓	✓	120	(4/0)	30	16	13,5	12,7	8,3	100/500
005171	Beige	✓	-	-			30	18	13,5	12,7	8,3	100/500
006171	Red	-	✓	✓			30	18	13,5	12,7	8,3	100/500
005172•	Beige	✓	-	-			39	25	13,5	12,7	8,3	100/500
006172	Red	-	✓	✓	150	(300)	39	25	13,5	12,7	8,3	100/500
00518	Olive	✓	-	-			36	20	16	15	10,3	50/250
00618	Blue	-	✓	✓			36	20	16	15	10,3	50/250
005181	Olive	✓	-	-			40	25	16	15	10,3	50/250
006181	Blue	-	✓	✓	70	(2/0)	40	25	16	15	10,3	50/250
00519•	Yellow	✓	-	-			37	21	17,2	16	13,5	50/50
00520•	Red	✓	-	-			44	25	19,2	18	14,7	50/50
00521•	Blue	✓	-	-			48	27	21,4	20	16,7	50/50
00522•	Yellow	✓	-	-	150	(300)	58	32	25	23	19,5	25/50

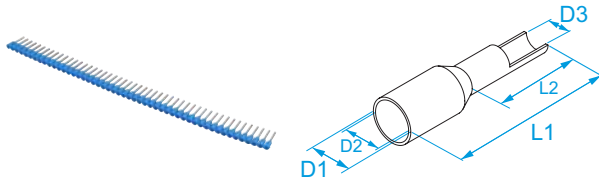


file n° E 506333

• No UL

**HALOGEN
FREE**

END-SLEEVES FOR COPPER CONDUCTORS · INSULATED · SINGLE CABLE · IN A STRAP



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105 °C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules)

EQUIPMENT: use tool BM 5375

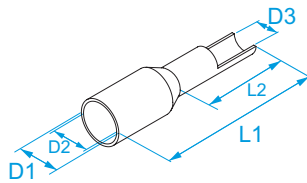
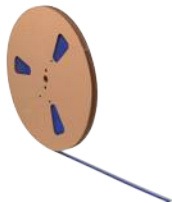
Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
90501	Orange	√	-	-	0,5	(20)	14	8	3,1	2,6	1	500/2500
90601*	White	-	√	√	0,5	(20)	14	8	3,1	2,6	1	500/2500
90502	White	√	-	-	0,75	(18)	14	8	3,3	2,8	1,2	500/2500
90702	Light blue	-	√	-	0,75	(18)	14	8	3,3	2,8	1,2	500/2500
90602*	Grey	-	-	√	0,75	(18)	14	8	3,3	2,8	1,2	500/2500
90503	Yellow	√	-	-	1	(18)	14	8	3,5	3	1,4	500/2500
90603*	Red	-	√	√	1	(18)	14	8	3,5	3	1,4	500/2500
90504	Red	√	-	-	1,5	(16)	14	8	4	3,5	1,7	500/2500
90604*	Black	-	√	√	1,5	(16)	14	8	4	3,5	1,7	500/2500
90506*	Blue	√	-	√	2,5	(14)	14	8	4,7	4,2	2,2	500/2500
90706	Grey	-	√	-	2,5	(14)	14	8	4,7	4,2	2,2	500/2500



* file n° E 506333

HALOGEN FREE

END-SLEEVES FOR COPPER CONDUCTORS · INSULATED · SINGLE CABLE · IN A REEL



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105 °C max

ACCORDING TO STD.: DIN 46228-4 (tubular ferrules with plastic sleeve), UL486F (bare and covered ferrules)

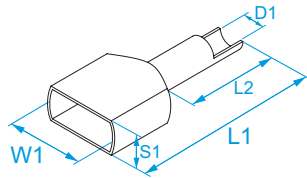
REEL: Outer diameter: 45 cm
Inner diameter: 2,3 cm
Thickness: 3 cm

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
91501	Orange	√	-	-	0,5	(20)	14	8	3,1	2,6	1	10000/10000
91601*	White	-	√	√	0,5	(20)	14	8	3,1	2,6	1	10000/10000
91502	White	√	-	-	0,75	(18)	14	8	3,3	2,8	1,2	10000/10000
91702	Blue	-	√	-	0,75	(18)	14	8	3,3	2,8	1,2	10000/10000
91602*	Grey	-	-	√	0,75	(18)	14	8	3,3	2,8	1,2	10000/10000
91503	Yellow	√	-	-	1	(18)	14	8	3,5	3	1,4	7500/7500
91603*	Red	-	√	√	1	(18)	14	8	3,5	3	1,4	7500/7500
91504	Red	√	-	-	1,5	(16)	14	8	4	3,5	1,7	7500/7500
91604*	Black	-	√	√	1,5	(16)	14	8	4	3,5	1,7	7500/7500
91506*	Blue	√	-	√	2,5	(14)	14	8	4,7	4,2	2,2	5000/5000
91706	Grey	-	√	-	2,5	(14)	14	8	4,7	4,2	2,2	5000/5000



* file n° E 506333

HALOGEN FREE

END-SLEEVES FOR COPPER CONDUCTORS - INSULATED - DOUBLE CABLE

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polypropylene (PP) without flame retardant

OPERATING TEMPERATURE: 105 °C max

ACCORDING TO STD.: DIN 46228-1 (tubular ferrules without plastic sleeve up to 50mm²), UL486F (bare and covered ferrules), CSA C22.2 No.291-14 (bare and covered ferrules)

Code	Color	Standard color 1	Standard color 2	Color DIN 46228/4	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	S1 (mm)	
00551	Orange	√	-	-	2 X 0,5	(20)	4,7	15	8	1,4	2,5	200/2000
00651	White	-	√	√			4,7	15	8	1,4	2,5	200/2000
00552	White	√	-	-	2 X 0,75	(18)	5	15	8	1,7	2,8	200/2000
00753	Blue	-	√	-			5	15	8	1,7	2,8	200/2000
00652	Grey	-	-	√	2 X 0,75	(18)	5	15	8	1,7	2,8	200/2000
00553	White	√	-	-			5	17	10	1,7	2,8	200/2000
00653	Grey	-	-	√	2 X 0,75	(18)	5	17	10	1,7	2,8	200/2000
006531	Grey	√	-	-			5	21	14	1,7	2,8	200/2000
007533•	Light blue	-	√	-	2 X 0,75	(18)	5	21	14	1,7	2,8	200/2000
005531•	White	-	-	√			5	21	14	1,7	2,8	200/2000
00554	Yellow	√	-	-	2 X 1	(18)	5,4	15	8	1,95	3,4	200/2000
00654	Red	-	√	√			5,4	15	8	1,95	3,4	200/2000
00555	Yellow	√	-	-	2 X 1	(18)	5,4	17	10	1,95	3,4	200/2000
00655	Red	-	√	√			5,4	17	10	1,95	3,4	200/2000
005551	Yellow	√	-	-	2 X 1	(18)	5,4	19	12	1,95	3,4	200/2000
006551	Red	-	√	√			5,4	19	12	1,95	3,4	200/2000
005552	Yellow	√	-	-	2 X 1	(18)	5,4	25	18	1,95	3,4	200/2000
006552	Red	-	√	√			5,4	25	18	1,95	3,4	200/2000
00556	Red	√	-	-	2 X 1,5	(16)	6,6	16	8	2,2	3,6	200/2000
00656	Black	-	√	√			6,6	16	8	2,2	3,6	200/2000
00557	Red	√	-	-	2 X 1,5	(16)	6,6	20	12	2,2	3,6	200/2000
00657	Black	-	√	√			6,6	20	12	2,2	3,6	200/2000
005571	Red	√	-	-	2 X 1,5	(16)	6,6	26	18	2,2	3,6	200/2000
006571	Black	-	√	√			6,6	26	18	2,2	3,6	200/2000
00558	Blue	√	-	√	2 X 2,5	(14)	7,8	18,5	10	2,8	4,2	100/1000
00758	Grey	-	√	-			7,8	18,5	10	2,8	4,2	100/1000
00559	Blue	√	-	√	2 X 2,5	(14)	7,8	21,5	13	2,8	4,2	100/1000
00560	Grey	√	-	√			7,8	21,5	13	2,8	4,2	100/1000
00760	Orange	-	√	-	2 X 4	(12)	8,8	23	12	3,7	4,9	100/1000
00561•	Black	√	-	-			8,8	23	12	3,7	4,9	100/1000
00761	Green	-	√	-	2 X 6	(10)	10	26	14	4,8	6,9	50/500
00661	Yellow	-	-	√			10	26	14	4,8	6,9	50/500
00562	Ivory	√	-	-	2 X 6	(10)	13	26	14	6,4	7,2	100/1000
00762	Brown	-	√	-			13	26	14	6,4	7,2	100/1000
00662	Red	-	-	√	2 X 10	(8)	13	26	14	6,4	7,2	100/1000
00563	Green	√	-	-			13	26	14	6,4	7,2	100/1000
00763	Ivory	-	√	-	2 X 16	(6)	18,4	30	14	8,2	9,6	50/500
00663	Blue	-	-	√			18,4	30	14	8,2	9,6	50/500

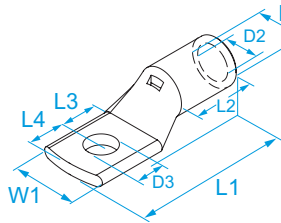


file n° E 506333

• No UL

HALOGEN FREE

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: yes

TERMINALS

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
011071•					3	#4	-	8	16	5	5	4	3,5	1,9	3,2	100/100
011191•	1.5	(16)	1.5	(16)	4	#8	-	8	16	5	5	4	3,5	1,9	4,2	100/100
011251•					5	#10	-	8	16	5	5	4	3,5	1,9	5,2	100/1000
011311•					6	#12	-	10	18	5	6	5	3,5	1,9	6,3	100/100
012191•	2.5	(14)	2.5	(14)	4	#8	-	8	18	7	5	4	4	2,4	4,2	100/100
012251•					5	#10	-	10	20	7	6	5	4	2,4	5,2	100/100
012311•					6	#12	-	10	20	7	6	5	4	2,4	6,3	100/100
013190•	4	(12)	4	(12)	4	#8	-	10	20	7	6	5	5,1	3,1	4,2	100/100
013250•					5	#10	-	10	20	7	6	5	5,1	3,1	5,2	100/100
013310•					6	#12	-	10	20	7	6	5	5,1	3,1	6,3	100/100
013370•	6	(10)	6	(10)	8	5/16"	-	11	24	7	8,5	6,5	5,1	3,1	8,2	100/100
013191•					4	#8	-	10	23	9	6	5	5,5	3,5	4,2	100/100
013251•					5	#10	-	10	23	9	6	5	5,5	3,5	5,2	100/100
013311•	10	(8)	10	(8)	6	#12	-	10	23	9	6	5	5,5	3,5	6,3	100/100
013371•					8	5/16"	-	12	27	9	9	6	5,5	3,5	8,2	100/1000
013431•					10	3/8"	-	15	32	9	11	9	5,5	3,5	10,2	100/100
01419*	16	(6)	16	(6)	5	#10	7	10	26,5	9,5	6,3	5	7	5	5,2	100/500
01431*					6	#12	7	11	28	9,5	6,5	5,5	7	5	6,3	100/500
01437*					8	5/16"	7	13,6	31,5	9,5	8,8	6,2	7	5	8,5	100/500
01443*	25	(4)	25	(4)	10	3/8"	7	17,2	34	9,5	9,6	9,5	7	5	10,5	100/500
01449*					12	1/2"	7	17	34,1	9,5	9,3	9,3	7	5	12,2	100/500
01525					5	#10	7,5	11,5	30,5	11	8,7	6,3	8	6	5,3	100/500
01531	35	(2)	35	(2)	6	#12	7,5	11,5	31	11	8,5	6	8	6	6,5	100/500
01537					8	5/16"	7,5	15	36	12	9	8	8	6	8,5	100/500
01543					10	3/8"	7,5	17,5	38,5	12	10,5	10	8	6	10,5	100/500
01549	50	(1/0)	50	(1/0)	12	1/2"	7,5	17,5	39	12	10,5	10	8	6	13	100/500
01625					5	#10	9	14	35,5	13,5	10	7	9,5	7	5,2	100/500
01631					6	#12	9	14	35,5	13,5	10	7	9,5	7	6,3	100/300
01637	70	(2/0)	70	(2/0)	8	5/16"	9	14	35,5	13,5	10	8	9,5	7	8,4	100/300
01643					10	3/8"	9	17	39,5	14	10,5	9,5	9,5	7	10,5	100/300
01649					12	1/2"	9	18,5	39,5	14	11	9,5	9,5	7	13	100/300
01731	50	(1/0)	50	(1/0)	6	#12	11	17	37	15	9,5	6	11,5	8,5	6,4	100/300
01737					8	5/16"	11	17	41,5	15	10,5	10	11,5	8,5	8,5	100/300
01749					12	1/2"	11	20	46	15	14	11,5	11,5	8,5	13	100/300
01743	70	(2/0)	70	(2/0)	10	3/8"	11	17	45	15	12	9,5	11,5	8,5	10,5	100/300
01831					6	#12	12	18,7	45,5	18	9	9	13	10	6,4	100/100
01837					8	5/16"	12	18,7	47,5	18	10	10	13	10	8,4	100/100
01843	70	(2/0)	70	(2/0)	10	3/8"	12	18,7	49,5	18	11	11	13	10	10,5	100/100
01849					12	1/2"	12	21	53	18	15,3	12	13	10	12,5	100/100
01855					14	9/16"	12	22	53	17	15,3	12	13	10	14,5	100/100
01931•	70	(2/0)	70	(2/0)	6	#12	14	21,8	51	20,5	11	10	15	12	6,5	100/100
01937•					8	5/16"	14	21,8	51	20,5	11	10	15	12	8,5	100/100
01943•					10	3/8"	14	21,8	57	20,5	14,5	11,2	15	12	10,5	100/100
01949•	70	(2/0)	70	(2/0)	12	1/2"	14	22	57	20,5	13	13	15	12	12,5	100/100
01955•					14	9/16"	14	22	57	20,5	14	11,3	15	12	14,5	100/100
01961•					16	5/8"	14	22	57	20,5	14	11,3	15	12	16,5	100/100

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
03137•					8	5/16"	16	25	54,5	23,5	9	8	17,5	13,8	8,5	50/50
03143•					10	3/8"	16	25	60	23	12,5	12,5	17,5	13,8	10,5	50/50
03149•	95	(3/0)	95	(3/0)	12	1/2"	16	25	62	23	14	13	17,5	13,8	12,5	50/50
03155•					14	9/16"	16	25	65	23	17	13	17,5	13,8	14,5	50/50
03161•					16	5/8"	16	25	65	23	17	13,5	17,5	13,8	16,5	50/50
03237					8	5/16"	18	28	64	25	14	14	19,5	15,5	8,5	50/50
03243					10	3/8"	18	28	64	25	14	14	19,5	15,5	10,5	50/50
03249	120	(4/0)	120	(4/0)	12	1/2"	18	28	64	25	14	14	19,5	15,5	12,5	50/50
03255					14	9/16"	18	28	67	25	15	16	19,5	15,5	14,5	50/50
03261					16	5/8"	18	28	70	25	15	16	19,5	15,5	16,5	50/50
03337					8	5/16"	20	31	64	28	13	11	21	17	8,4	50/50
03343					10	3/8"	20	31	64	28	13	11	21	17	10,4	50/50
03349	150	(300)	150	(300)	12	1/2"	20	31	70	28	14	13	21	17	12,5	50/50
03355					14	9/16"	20	31	70,5	28	15,5	15	21	17	14,5	50/50
03361					16	5/8"	20	31	73	30	15	16	21	17	16,5	50/50
03367					20	3/4"	20	31	73	30	22	16	21	17	21	50/50
03443					10	3/8"	22	35	75	30	16	14	24	19	10,5	50/50
03449					12	1/2"	22	35	75	30	16	14	24	19	13	50/50
03455	185	(400)	185	(400)	14	9/16"	22	35	79	30	18	16	24	19	15	50/50
03461					16	5/8"	22	35	81	30	19	17	24	19	17	50/50
03467					20	3/4"	22	35	87	30	22	20	24	19	21	50/50
03543•					10	3/8"	25	39,5	81	35	16	14	27	21,5	10,5	50/50
03549					12	1/2"	25	39,5	81	35	16	14	27	21,5	13	50/50
03555	240	(500)	240	(500)	14	9/16"	25	39,5	85	35	18	16	27	21,5	15	50/50
03561					16	5/8"	25	39,5	87	35	19	17	27	21,5	17	50/50
03567					20	3/4"	25	39,5	93	35	22	20	27	21,5	21	50/50
03649					12	1/2"	28	44	101	38	22	20	30	24	13	25/25
03655					14	9/16"	28	44	101	38	22	20	30	24	15	25/25
03661	300	(600)	300	(600)	16	5/8"	28	44	101	38	22	20	30	24	17	25/25
03667					20	3/4"	28	44	101	38	22	20	30	24	21	25/25
03669•					24	15/16"	28	44	101	38	22	20	30	24	25	25/25
03749•					12	1/2"	35	50	108	40	22	20	35	27	13	10/10
03755•					14	9/16"	35	50	108	40	22	20	35	27	15	10/10
03761•	400	(800)	300	(600)	16	5/8"	35	50	108	40	22	20	35	27	17	10/10
03767•					20	3/4"	35	50	108	40	22	20	35	27	21	10/10
03769•					24	15/16"	35	50	108	40	22	20	35	27	25	10/10
03861•	500	(1000)	400	(800)	16	5/8"	38	55	124	51	25	23	38	30	17	5/5
03867•					20	3/4"	38	55	124	51	25	23	38	30	21	1/1
03961•	630	(1250)	500	(1000)	16	5/8"	42	61	131	58	25	23	42	33,6	17	5/5
03967•					20	3/4"	42	61	131	58	25	23	42	33,6	21	5/10



file n° E 137735



* file n° E 137735

• No UL

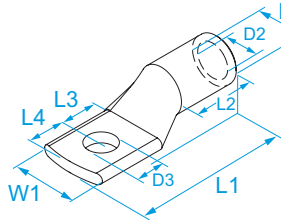
TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED - WITHOUT INSPECTION HOLE

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

INSPECTION HOLE: no

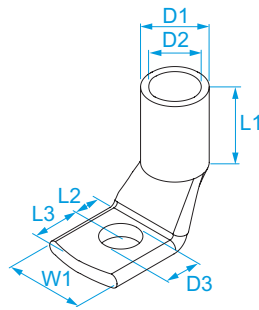


TERMINALS

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
014191					5	#10	7	10	26,5	9,5	6,3	5	7	5	5,2	100/500
014311					6	#12	7	11	28	9,5	6,5	5,5	7	5	6,3	100/500
014371	10	(8)	10	(8)	8	5/16"	7	13,6	31,5	9,5	8,8	6,2	7	5	8,5	100/500
014431					10	3/8"	7	17,2	34	9,5	9,6	9,5	7	5	10,5	100/500
014491					12	1/2"	7	17	34,1	9,5	9,3	9,3	7	5	12,2	100/500
015251					5	#10	7,5	11,5	30,5	11	8,7	6,3	8	6	5,3	100/500
015311					6	#12	7,5	11,5	31	11	8,5	6	8	6	6,5	100/500
015371	16	(6)	16	(6)	8	5/16"	7,5	15	36	12	9	8	8	6	8,5	100/500
015431					10	3/8"	7,5	17,5	38,5	12	10,5	10	8	6	10,5	100/500
015491					12	1/2"	7,5	17,5	39	12	10,5	10	8	6	13	100/500
016251					5	#10	9	14	35,5	13,5	10	7	9,5	7	5,2	100/500
016311					6	#12	9	14	35,5	13,5	10	7	9,5	7	6,3	100/300
016371	25	(4)	25	(4)	8	5/16"	9	14	35,5	13,5	10	8	9,5	7	8,4	100/300
016431					10	3/8"	9	17	39,5	14	10,5	9,5	9,5	7	10,5	100/300
016491					12	1/2"	9	18,5	39,5	14	11	9,5	9,5	7	13	100/300
017311					6	#12	11	17	37	15	9,5	6	11,5	8,5	6,4	100/300
017371					8	5/16"	11	17	41,5	15	10,5	10	11,5	8,5	8,5	100/300
017431	35	(2)	35	(2)	10	3/8"	11	17	45	15	12	9,5	11,5	8,5	10,5	100/300
017491					12	1/2"	11	20	46	15	14	11,5	11,5	8,5	13	100/300
018311					6	#12	12	18,7	45,5	18	9	9	13	10	6,4	100/100
018371					8	5/16"	12	18,7	47,5	18	10	10	13	10	8,4	100/100
018431	50	(1/0)	50	(1/0)	10	3/8"	12	18,7	49,5	18	11	11	13	10	10,5	100/100
018491					12	1/2"	12	21	53	18	15,3	12	13	10	12,5	100/100
018551					14	9/16"	12	22	53	17	15,3	12	13	10	14,5	100/100
019311					6	#12	14	21,8	51	20,5	11	10	15	12	6,5	100/100
019371					8	5/16"	14	21,8	51	20,5	11	10	15	12	8,5	100/100
019431					10	3/8"	14	21,8	57	20,5	14,5	11,2	15	12	10,5	100/100
019491	70	(2/0)	70	(2/0)	12	1/2"	14	22	57	20,5	13	13	15	12	12,5	100/100
019551					14	9/16"	14	22	57	20,5	14	11,3	15	12	14,5	100/100
019611					16	5/8"	14	22	57	20,5	14	11,3	15	12	16,5	100/100
031371					8	5/16"	16	25	54,5	23,5	9	8	17,5	13,8	8,5	100/100
031431					10	3/8"	16	25	60	23	12,5	12,5	17,5	13,8	10,5	100/100
031491	95	(3/0)	95	(3/0)	12	1/2"	16	25	62	23	14	13	17,5	13,8	12,5	100/100
031551					14	9/16"	16	25	65	23	17	13	17,5	13,8	14,5	100/100
031611					16	5/8"	16	25	65	23	17	13,5	17,5	13,8	16,5	100/100
032371					8	5/16"	18	28	64	25	14	14	15,5	8,5	8,5	50/50
032431					12	1/2"	18	28	64	25	14	14	15,5	12,5	10,5	50/50
032491	120	(4/0)	120	(4/0)	10	3/8"	18	28	64	25	14	14	15,5	10,5	12,5	50/50
032551					14	9/16"	18	28	67	25	15	16	15,5	14,5	14,5	50/50
032611					16	5/8"	18	28	70	25	15	16	15,5	16,5	16,5	50/50
033371					8	5/16"	20	31	64	28	13	11	21	17	8,4	50/50
033431					10	3/8"	20	31	64	28	13	11	21	17	10,4	50/50
033491					12	1/2"	20	31	70	28	14	13	21	17	12,5	50/50
033551	150	(300)	150	(300)	14	9/16"	20	31	70,5	28	15,5	15	21	17	14,5	50/50
033611					16	5/8"	20	31	73	30	15	16	21	17	16,5	50/50
033671					20	3/4"	20	13	73	30	22	16	21	17	21	50/50
034431					10	3/8"	22	35	75	30	16	14	24	19	10,5	50/50
034491	185	(400)	185	(400)	12	1/2"	22	35	75	30	16	14	24	19	13	50/50
034551					14	9/16"	22	35	79	30	18	16	24	19	15	50/50

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
034611	185	(400)	185	(400)	16	5/8"	22	35	81	30	19	17	24	19	17	50/50
034671					20	3/4"	22	35	87	30	20	20	24	19	21	50/50
035431	240	(500)	240	(500)	10	3/8"	25	39,5	81	35	16	14	27	21,5	10,3	50/50
035491					12	1/2"	25	39,5	81	35	16	14	27	21,5	13	50/50
035551					14	9/16"	25	39,5	85	35	18	16	27	21,5	15	50/50
035611					16	5/8"	25	39,5	87	35	19	17	27	21,5	17	50/50
035671					20	3/4"	25	39,5	93	35	22	20	27	21,5	21	50/50
036491					12	1/2"	28	44	101	38	22	20	30	24	13	25/25
036551	300	(600)	240	(500)	14	9/16"	28	44	101	38	22	20	30	24	15	25/25
036611					16	5/8"	28	44	101	38	22	20	30	24	17	25/25
036671					20	3/4"	28	44	101	38	22	20	30	24	21	25/25
036691					24	15/16"	28	44	101	38	22	20	30	24	25	25/25
037491	400	(800)	300	(600)	12	1/2"	35	50	108	40	22	20	35	27	13	10/10
037551					14	9/16"	35	50	108	40	22	20	35	27	15	10/10
037611					16	5/8"	35	50	108	40	22	20	35	27	17	10/10
037671					20	3/4"	35	50	108	40	22	20	35	27	21	10/10
037691					24	15/16"	35	50	108	40	22	20	35	27	25	10/10
038611	500	(1000)	400	(800)	16	5/8"	38	55	124	51	25	23	38	30	17	5/5
038671					20	3/4"	38	55	124	51	25	23	38	30	21	1/1
039611	630	(1250)	500	(1000)	16	5/8"	42	61	131	58	25	23	42	33,6	17	5/5
039671					20	3/4"	42	61	131	58	25	23	42	33,6	21	5/10

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED - BENT 90°



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C


CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

INSPECTION HOLE: no

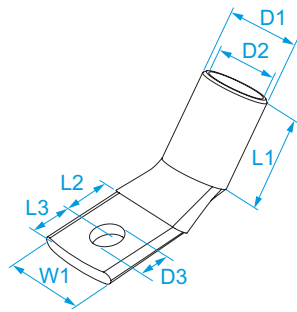
BENT: 90 °

TERMINALS

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
014199	10	(8)	5	#10	7	10	9,5	6	5	7	5	5,2	100/100
014319			6	#12	7	11	9,5	6	5,5	7	5	6,3	100/100
014379			8	5/16"	7	13,6	9,5	8	6,2	7	5	8,5	100/100
014439			10	3/8"	7	17,2	9,5	9	9,5	7	5	10,5	100/100
014499			12	1/2"	7	17	9,5	9	9,3	7	5	12,2	100/100
015259	16	(6)	5	#10	7,5	11,5	11	8	6,3	8	6	5,3	100/100
015319			6	#12	7,5	11,5	11	8	6	8	6	6,5	100/100
015379			8	5/16"	7,5	15	12	8	8	8	6	8,5	100/100
015439			10	3/8"	7,5	17,5	12	9,5	10	8	6	10,5	100/100
015499			12	1/2"	7,5	17,5	12	9,5	10	8	6	13	100/100
016259	25	(4)	5	#10	9	14	13,5	9	7	9,5	7	5,3	100/100
016319			6	#12	9	14	13,5	9	7	9,5	7	6,3	100/100
016379			8	5/16"	9	14	13,5	9	8	9,5	7	8,4	100/100
016439			10	3/8"	9	17	14	9,5	9,5	9,5	7	10,5	100/100
016499			12	1/2"	9	18,5	14	10	9,5	9,5	7	13	100/100
017319	35	(2)	6	#12	11	17	15	7	6	11,5	8,5	6,4	100/100
017379			8	5/16"	11	17	15	8	10	11,5	8,5	8,5	100/100
017439			10	3/8"	11	17	15	12	9,5	11,5	8,5	10,5	100/100
017499			12	1/2"	11	20	15	13	11,5	11,5	8,5	13	100/100
018319	50	(1/0)	6	#12	12	18,7	18	8	9	13	10	6,4	100/100
018379			8	5/16"	12	18,7	18	9	10	13	10	8,4	100/100
018439			10	3/8"	12	18,7	18	10	11	13	10	10,5	100/100
018499			12	1/2"	12	21	18	14	12	13	10	12,5	50/100
018559			14	9/16"	12	22	17	14	12	13	10	14,5	100/100
019319	70	(2/0)	6	#12	14	21,8	20,5	9	10	15	12	6,5	100/100
019379			8	5/16"	14	21,8	20,5	9	10	15	12	8,5	100/100
019439			10	3/8"	14	21,8	20,5	11,5	11,2	15	12	10,5	100/100
019499			12	1/2"	14	22	20,5	11,5	13	15	12	12,5	100/100
019559			14	9/16"	14	22	20,5	12,5	11,3	15	12	14,5	100/100
019619			16	5/8"	14	22	20,5	12,5	11,3	15	12	16,5	100/100
031379	95	(3/0)	8	5/16"	16	25	23	10	12,5	17,5	13,8	8,5	50/50
031439			10	3/8"	16	25	23	10	12,5	17,5	13,8	10,5	50/50
031499			12	1/2"	16	25	23	11,5	13	17,5	13,8	12,5	50/50
031559			14	9/16"	16	25	23	15	13	17,5	13,8	14,5	50/50
031619			16	5/8"	16	25	23	15	13,5	17,5	13,8	16,5	50/50
032379	120	(4/0)	8	5/16"	18	28	25	11,5	14	19,5	15,5	8,5	50/50
032439			10	3/8"	18	28	25	11,5	14	19,5	15,5	10,5	50/50
032499			12	1/2"	18	28	25	11,5	14	19,5	15,5	12,5	50/50
032559			14	9/16"	18	28	25	12,5	16	19,5	15,5	14,5	50/50
032619			16	5/8"	18	28	25	12,5	16	19,5	15,5	16,5	50/50
033379	150	(300)	8	5/16"	20	31	28	10	11	21	17	8,4	50/50
033439			10	3/8"	20	31	28	10	11	21	17	10,4	50/50
033499			12	1/2"	20	31	28	11	13	21	17	12,5	50/50
033559			14	9/16"	20	31	28	12,5	15	21	17	14,5	50/50
033619			16	5/8"	20	31	30	12	16	21	17	16,5	50/50
033679			20	3/4"	20	31	30	20	16	21	17	21	50/50
034439	185	(400)	10	3/8"	22	35	30	12,5	14	24	19	10,5	25/50
034499			12	1/2"	22	35	30	12,5	14	24	19	13	50/50
034559			14	9/16"	22	35	30	15	16	24	19	15	50/50

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
034619	185	(400)	16	5/8"	22	35	30	16	17	24	19	17	50/50
034679			20	3/4"	22	35	30	19	20	24	19	21	50/50
035499	240	(500)	12	1/2"	25	39,5	35	13	14	27	21,5	13	25/50
035559			14	9/16"	25	39,5	35	15,5	16	27	21,5	15	25/50
035619			16	5/8"	25	39,5	35	16,5	17	27	21,5	17	50/50
035679			20	3/4"	25	39,5	35	20,5	20	27	21,5	21	50/50

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED - BENT 45°



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C


CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

INSPECTION HOLE: no

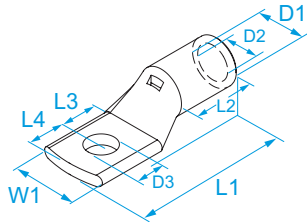
BENT: 45 °

TERMINALS

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
0141945	10	(8)	5	#10	7	10	9,5	6	5	7	5	5,2	100/100
0143145			6	#12	7	11	9,5	6	5,5	7	5	6,3	100/100
0143745			8	5/16"	7	13,6	9,5	8	6,2	7	5	8,5	100/100
0144345			10	3/8"	7	17,2	9,5	9	9,5	7	5	10,5	100/100
0144945			12	1/2"	7	17	9,5	9	9,3	7	5	12,2	100/100
0152545	16	(6)	5	#10	7,5	11,5	11	8	6,3	8	6	5,3	100/100
0153145			6	#12	7,5	11,5	11	8	6	8	6	6,5	100/100
0153745			8	5/16"	7,5	15	12	8	8	8	6	8,5	100/100
0154345			10	3/8"	7,5	17,5	12	9,5	10	8	6	10,5	100/100
0154945			12	1/2"	7,5	17,5	12	9,5	10	8	6	13	100/100
0162545	25	(4)	5	#10	9	14	13,5	9	7	9,5	7	5,3	100/100
0163145			6	#12	9	14	13,5	9	7	9,5	7	6,3	100/100
0163745			8	5/16"	9	14	13,5	9	8	9,5	7	8,4	100/100
0164345			10	3/8"	9	17	14	9,5	9,5	9,5	7	10,5	100/100
0164945			12	1/2"	9	18,5	14	10	9,5	9,5	7	13	100/100
0173145	35	(2)	6	#12	11	17	15	7	6	11,5	8,5	6,4	100/100
0173745			8	5/16"	11	17	15	8	10	11,5	8,5	8,5	100/100
0174345			10	3/8"	11	17	15	12	9,5	11,5	8,5	10,5	100/100
0174945			12	1/2"	11	20	15	13	11,5	11,5	8,5	13	100/100
0183145	50	(1/0)	6	#12	12	18,7	18	8	9	13	10	6,4	100/100
0183745			8	5/16"	12	18,7	18	9	10	13	10	8,4	100/100
0184345			10	3/8"	12	18,7	18	10	11	13	10	10,5	100/100
0184945			12	1/2"	12	21	18	14	12	13	10	12,5	50/100
0185545			14	9/16"	12	22	17	14	12	13	10	14,5	100/100
0193145	70	(2/0)	6	#12	14	21,8	20,5	9	10	15	12	6,5	100/100
0193745			8	5/16"	14	21,8	20,5	9	10	15	12	8,5	100/100
0194345			10	3/8"	14	21,8	20,5	11,5	11,2	15	12	10,5	100/100
0194945			12	1/2"	14	22	20,5	11,5	13	15	12	12,5	100/100
0195545			14	9/16"	14	22	20,5	12,5	11,3	15	12	14,5	100/100
0196145			16	5/8"	14	22	20,5	12,5	11,3	15	12	16,5	100/100
0313745	95	(3/0)	8	5/16"	16	25	23	10	12,5	17,5	13,8	8,5	50/50
0314345			10	3/8"	16	25	23	10	12,5	17,5	13,8	10,5	50/50
0314945			12	1/2"	16	25	23	11,5	13	17,5	13,8	12,5	50/50
0315545			14	9/16"	16	25	23	15	13	17,5	13,8	14,5	50/50
0316145			16	5/8"	16	25	23	15	13,5	17,5	13,8	16,5	50/50
0323745	120	(4/0)	8	5/16"	18	28	25	11,5	14	19,5	15,5	8,5	50/50
0324345			10	3/8"	18	28	25	11,5	14	19,5	15,5	10,5	50/50
0324945			12	1/2"	18	28	25	11,5	14	19,5	15,5	12,5	50/50
0325545			14	9/16"	18	28	25	12,5	16	19,5	15,5	14,5	50/50
0326145			16	5/8"	18	28	25	12,5	16	19,5	15,5	16,5	50/50
0333745	150	(300)	8	5/16"	20	31	28	10	11	21	17	8,4	50/50
0334345			10	3/8"	20	31	28	10	11	21	17	10,4	50/50
0334945			12	1/2"	20	31	28	11	13	21	17	12,5	50/50
0335545			14	9/16"	20	31	28	12,5	15	21	17	14,5	50/50
0336145			16	5/8"	20	31	30	12	16	21	17	16,5	50/50
0336745			20	3/4"	20	31	30	20	16	21	17	21	50/50
0344345	185	(400)	10	3/8"	22	35	30	12,5	14	24	19	10,5	25/50
0344945			12	1/2"	22	35	30	12,5	14	24	19	13	50/50
0345545			14	9/16"	22	35	30	15	16	24	19	15	50/50

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
0346145	185	(400)	16	5/8"	22	35	30	16	17	24	19	17	50/50
0346745			20	3/4"	22	35	30	19	20	24	19	21	50/50
0354945	240	(500)	12	1/2"	25	39,5	35	13	14	27	21,5	13	25/50
0355545			14	9/16"	25	39,5	35	15,5	16	27	21,5	15	25/50
0356145			16	5/8"	25	39,5	35	16,5	17	27	21,5	17	50/50
0356745			20	3/4"	25	39,5	35	20,5	20	27	21,5	21	50/50

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED - CLASS 6



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 6 according to EN 60228

APPLICATIONS: crimping of very flexible conductors designed to withstand repeated twists and bendings (eg robotic systems, welding machines, etc).

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: yes

ASSEMBLING: double crimping for sections greater than and equal to 70 mmq (AWG 2/0)

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
01419*					5	#10	7	10	26,5	9,5	6,3	5	7	5	5,2	100/500
01431*					6	#12	7	11	28	9,5	6,5	5,5	7	5	6,3	100/500
01437*	10	(8)	10	(8)	8	5/16"	7	13,6	31,5	9,5	8,8	6,2	7	5	8,5	100/500
01443*					10	3/8"	7	17,2	34	9,5	9,6	9,5	7	5	10,5	100/500
01449*					12	1/2"	7	17	34,1	9,5	9,3	9,3	7	5	12,2	100/500
01525					5	#10	7,5	11,5	30,5	11	8,7	6,3	8	6	5,3	100/500
01531					6	#12	7,5	11,5	31	11	8,5	6	8	6	6,5	100/500
01537	16	(6)	16	(6)	8	5/16"	7,5	15	36	12	9	8	8	6	8,5	100/500
01543					10	3/8"	7,5	17,5	38,5	12	10,5	10	8	6	10,5	100/500
01549					12	1/2"	7,5	17,5	39	12	10,5	10	8	6	13	100/500
01625					5	#10	9	14	35,5	13,5	10	7	9,5	7	5,2	100/500
01631					6	#12	9	14	35,5	13,5	10	7	9,5	7	6,3	100/300
01637	25	(4)	25	(4)	8	5/16"	9	14	35,5	13,5	10	8	9,5	7	8,4	100/300
01643					10	3/8"	9	17	39,5	14	10,5	9,5	9,5	7	10,5	100/300
01649					12	1/2"	9	18,5	39,5	14	11	9,5	9,5	7	13	100/300
017314					6	#12	11	17	37	15	9,5	6	11,7	9,3	6,4	25/25
017374					8	5/16"	11	17	41,5	15	10,5	10	11,7	9,3	8,5	25/25
017434	35	(2)	35	(2)	10	3/8"	11	17	45	15	12	9,5	11,7	9,3	10,5	25/25
017494					12	1/2"	11	20	46	15	14	11,5	11,7	9,3	13	25/25
018314					6	#12	13	20,3	47,5	18	11	10	14	11	6,5	25/25
018374					8	5/16"	13	20,3	47,5	18	11	10	14	11	8,5	25/25
018434	50	(1/0)	50	(1/0)	10	3/8"	13	20,5	50	18	14,5	9,3	14	11	10,5	25/25
018494					12	1/2"	13	24	50	18	15	12	14	11	12,5	25/25
019314					6	#12	14	23,5	51	20,5	11	10	16	13	6,5	25/25
019374					8	5/16"	14	23,5	51	20,5	11	10	16	13	8,5	25/25
019434					10	3/8"	14	23,5	57,5	20,5	14,5	11,2	16	13	10,5	25/25
019494	70	(2/0)	70	(2/0)	12	1/2"	14	23,5	57	20,5	13	13	16	13	12,5	25/25
019554					14	9/16"	14	23,5	57	20,5	14	11,3	16	13	14,5	25/25
019614					16	5/8"	14	23,5	57	20,5	14	11,3	16	13	16,5	25/100
031374					8	5/16"	18	27,5	60	23	12,5	12,5	18,8	15	8,5	25/50
031434					10	3/8"	18	27,5	60	23	12,5	12,5	18,8	15	10,5	25/25
031494	95	(3/0)	95	(3/0)	12	1/2"	18	27,5	62	23	14	13	18,8	15	12,5	25/25
031554					14	9/16"	18	25	65	23	17	13	18,8	15	14,5	25/25
031614					16	5/8"	18	25	65	23	17	13,5	18,8	15	16,5	25/25
032374•					8	5/16"	20	31	64	28	13	11	21	17	8,4	25/25
032434•					10	3/8"	20	31	64	28	13	11	21	17	10,4	25/25
032494•	120	(4/0)	120	(4/0)	12	1/2"	20	31	70	28	14	13	21	17	12,5	25/50
032554•					14	9/16"	20	31	70,5	28	15,5	15	21	17	14,5	25/50
032614•					16	5/8"	20	31	73	30	15	16	21	17	16,5	25/50
033374•					8	5/16"	22	35	75	30	15	13	24	19	8,5	25/25
033434•					10	3/8"	22	35	79	30	18	16	24	19	10,5	25/25
033494•					12	1/2"	22	36	84	30	14	17	24	19	12,5	25/25
033554•	150	(300)	150	(300)	14	9/16"	22	36	84	30	16	16	24	19	14,5	25/25
033614•					16	5/8"	22	36	84	30	15	17	24	19	17	25/25
033674•					20	3/4"	22	36	84	30	22	17	24	19	21	25/25

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
034494•	185	(400)	185	(400)	12	1/2"	25	39	81	35	16	14	27	21,5	13	25/25
034554•					14	9/16"	25	39	85	35	18	16	27	21,5	15	25/25
034614•					16	5/8"	25	39	87	35	19	17	27	21,5	17	25/25
034674•					20	3/4"	25	39	90	35	22	20	27	21,5	21	25/25

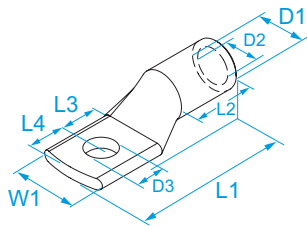


file n° E 137735



* file n° E 137735

• No UL

SUPERFLEX
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · SMALL PLATE

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

APPLICATIONS: the reduced width of the palm allows connection to equipment with lugs of dimensions not suitable for standard terminals.

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: no

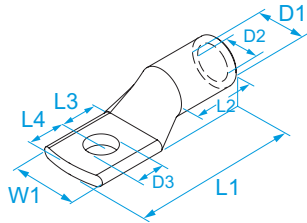
Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
017313	35	(2)	6	#12	11	15	39	16	8	7	11,5	8,5	6,5	25/25
018313	50	(1/0)	6	#12	12	15	41	18	8	7	13	10	6,5	25/25
018373•			8	5/16"	12	18,5	51	18	13,5	9,5	13	10	10,5	25/25
018433	70	(2/0)	10	3/8"	12	18,5	51	18	13,5	9,5	13	10	10,5	25/25
019313•			6	#12	14	17	46	20	9,5	6,5	15	12	6,5	25/25
019433•	95	(3/0)	10	3/8"	14	19	52	21	13	10	15	12	10,5	25/25
031373•			8	5/16"	16	19	54	24	12	8	17	13,8	8,5	25/25
031433•	120	(4/0)	10	3/8"	16	19	58	22	13	10	17	13,8	10,5	25/25
032373			8	5/16"	18	19	61	22	12	9	19,5	15,5	8,5	25/25
032433	150	(300)	10	3/8"	18	19	61	22	12	9	19,5	15,5	10,5	25/25
033373			8	5/16"	20	19	70	30	17	9	21	17	8,4	25/25
033433	185	(400)	10	3/8"	20	19	70	30	17	9	21	17	10,5	25/25
034493			12	1/2"	22	31	82	32	17	14	24	19	13	25/25
035493	240	(500)	12	1/2"	25	31,5	90	39	17	14	27	21,5	13	25/25



file n° E 137735

• No UL

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED - LONG BARREL



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

APPLICATIONS: Suitable for outdoors installations (the absence of the inspection hole prevents the humidity and atmospheric agents infiltration). Suitable for heavy applications (the greater length of the barrel allows more crimping increasing the tensile strength). Suitable for the grounding of structures and equipment both indoors and outdoors.

ACCORDING TO STD.: UL 486 A-B

INSPECTION HOLE: no

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
71537	16	(6)	16	(6)	8	5/16"	7,5	11,5	41	22	8,7	6,3	8	6	8,4	100/100
71637	25	(4)	25	(4)	8	5/16"	9	13,5	49	27	10	8	9,5	7	8,4	100/100
71643					10	3/8"	9	17,2	50	27	11,5	9	9,5	7	10,5	100/100
71737					8	5/16"	11	17	57	28	11	8,6	11,5	8,5	8,4	100/100
71743	35	(2)	35	(2)	10	3/8"	11	17	57	28	11	10	11,5	8,5	10,5	100/100
71837•					8	5/16"	12	19	67	35	12,7	10,5	13	10	8,4	100/100
71843					10	3/8"	12	19	67	35	13,7	9,5	13	10	10,3	50/100
71849	50	(1/0)	50	(1/0)	12	1/2"	12	21	67	35	15,3	12	13	10	12,5	50/100
71943•					10	3/8"	14	22	75	41	14,2	11,3	15	12	10,3	50/50
71949•					12	1/2"	14	22	75	41	14,2	11,3	15	12	12,5	50/50
71955•	70	(2/0)	70	(2/0)	14	9/16"	14	22	75	41	14,2	11,3	15	12	14,5	50/50
71961•					16	5/8"	14	22	75	41	14,2	11,3	15	12	16,5	50/50
73143•					10	3/8"	16	25	89	44	17,5	12,5	17	13,8	10,3	25/25
73149•	95	(3/0)	95	(3/0)	12	1/2"	16	25	89	44	17,5	12,5	17	13,8	12,5	25/25
73155•					14	9/16"	16	25	89	44	17,5	13	17	13,8	14,5	25/25
73161•					16	5/8"	16	25	89	44	17,5	13	17	13,8	16,5	25/25
73243					10	3/8"	18	28	101	50	22,5	14	19,5	15,5	10,4	25/25
73249	120	(4/0)	120	(4/0)	12	1/2"	18	28	101	50	22,5	14	19,5	15,5	12,5	25/25
73255					14	9/16"	18	28	101	50	22,5	14	19,5	15,5	14,5	25/25
73261					16	5/8"	18	28	101	50	22,5	14	19,5	15,5	16,5	25/25
73349					12	1/2"	20	31	104	51	22	16	21	17	12,5	25/25
73355	150	(300)	150	(300)	14	9/16"	20	31	104	51	22	16	21	17	14,5	25/25
73361					16	5/8"	20	31	104	51	22	16,5	21	17	16,5	25/25
73367					20	3/4"	20	31	104	51	23	16,5	21	17	21	25/25
73455					14	9/16"	22	35	104	55	18	16	24	19	14,5	10/10
73461	185	(400)	185	(400)	16	5/8"	22	35	104	55	19	17	24	19	16,5	10/10
73467					20	3/4"	22	35	104	55	22	20	24	19	21	10/10
73555					14	9/16"	25	39	108	58	18	16	27	21,5	14,5	10/10
73561	240	(500)	240	(500)	16	5/8"	25	39	110	58	19	17	27	21,5	17	10/10
73567					20	3/4"	25	39	116	58	22	20	27	21,5	21	10/10
73661	300	(600)	240	(500)	16	5/8"	28	44	122	60	22	20	30	24	17	10/10
73761•	400	(800)	300	(600)	16	5/8"	35	50	127	62	22	20	35	27	17	10/10



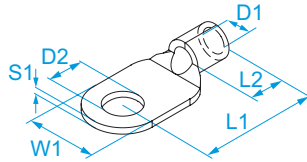
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• No UL


TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · RING · SILVER ALLOY BRAZED DIN 46234
TERMINAL MATERIAL: tinned copper

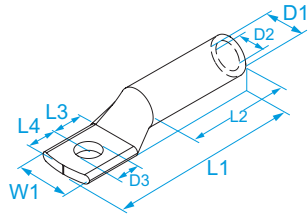
SEAM: brazed silver alloy

OPERATING TEMPERATURE: from -50 °C to +150 °C

ACCORDING TO STD.: DIN 46234


Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
02425	10	(8)	5	#10	6	10	16	8	4,5	5,3	1,1	100/500
02431			6	#12	6	11	17	8	4,5	6,4	1,1	100/500
02437			8	5/16"	6	14	20	8	4,5	8,4	1,1	100/500
02443			10	3/8"	6	18	21	8	4,5	10,5	1,1	100/500
02449			12	1/2"	6	22	23	8	4,5	13	1,1	100/500
02525	16	(6)	5	#10	8	11	20	10	5,8	5,3	1,2	100/500
02531			6	#12	8	11	20	10	5,8	6,4	1,2	100/500
02537			8	5/16"	8	14	22	10	5,8	8,4	1,2	100/500
02543			10	3/8"	8	18	24	10	5,8	10,5	1,2	100/500
02549			12	1/2"	8	22	26	10	5,8	13	1,2	100/500
02561	25	(4)	16	5/8"	8	32	36	10	5,8	17	1,2	100/500
02631			6	#12	10	12	25	11	7,5	6,4	1,5	100/200
02637			8	5/16"	10	16	25	11	7,5	8,4	1,5	100/200
02643			10	3/8"	10	18	26	11	7,5	10,5	1,5	100/200
02649			12	1/2"	10	22	31	11	7,5	13	1,5	100/200
02655	35	(2)	14	9/16"	10	30	37	11	7,5	15	1,5	100/200
02661			16	5/8"	10	28	35	11	7,5	17	1,5	100/200
02731			6	#12	12	15	26	12	9	6,5	1,6	100/200
02737			8	5/16"	12	16	26	12	9	8,4	1,7	100/200
02743			10	3/8"	12	18	27	12	9	10,5	1,7	100/200
02749	12	1/2"	12	22	31	12	9	13	1,7	100/200		
02755	50	(1/0)	14	9/16"	12	28	36	12	9	15	1,7	100/200
02761			16	5/8"	12	28	36	12	9	17	1,7	100/200
02837			8	5/16"	14	18	34	16	11	8,4	1,8	100/100
02843			10	3/8"	14	18	34	16	11	10,5	1,8	100/100
02849			12	1/2"	14	22	36	16	11	13	1,8	100/100
02855	70	(2/0)	14	9/16"	14	28	40	16	11	15	1,8	100/100
02861			16	5/8"	14	28	40	16	11	17	1,8	100/100
02937			8	5/16"	16	22	38	18	13	8,4	2	50/50
02943			10	3/8"	16	22	38	18	13	10,5	2	50/50
02949			12	1/2"	16	22	38	18	13	13	2	50/50
02955	95	(3/0)	14	9/16"	16	28	42	18	13	15	2	50/50
04137			8	5/16"	18	24	42	20	15	8,4	2,5	50/50
04143			10	3/8"	18	24	42	20	15	10,5	2,5	50/50
04149			12	1/2"	18	24	42	20	15	13	2,5	50/50
04155			14	9/16"	18	28	44	20	15	15	2,5	50/50
04161	120	(4/0)	16	5/8"	18	28	44	20	15	17	2,5	50/50
04243			10	3/8"	20	24	44	22	16,5	10,5	3	25/25
04249			12	1/2"	20	24	44	22	16,5	13	3	25/25
04255			14	9/16"	20	28	48	22	16,5	15	3	25/25
04261			16	5/8"	20	28	48	22	16,5	17	3	25/25
04267	20	3/4"	20	32	53	22	16,5	21	3	25/25		

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
04343	150	(300)	10	3/8"	22	30	50	24	19	10,5	3,2	25/25
04349			12	1/2"	22	30	50	24	19	13	3,2	25/25
04355			14	9/16"	22	30	50	24	19	15	3,2	10/10
04361			16	5/8"	22	30	50	24	19	17	3,2	25/25
04367			20	3/4"	22	36	63	24	19	21	3,2	10/10

TERMINAL LUGS FOR COPPER CONDUCTORS - UNINSULATED - DIN 46235

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

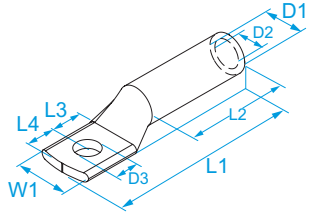
DIMENSIONS: compliant to DIN 46235

ACCORDING TO STD.: DIN 46235

INSPECTION HOLE: no

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
80425	10	(8)	5	#10	6	9	36	10	6	9	6	4,5	5,3	100/100
80431			6	#12	6	9	36	10	8	10,5	6	4,5	6,4	100/100
80531	16	(6)	6	#12	8	13	49	20	8	10,5	8,5	5,5	6,4	100/100
80537			8	5/16"	8	13	49	20	10	13	8,5	5,5	8,4	100/100
80543			10	3/8"	8	17	53	20	12	15	8,5	5,5	10,5	100/100
80631	25	(4)	6	#12	10	14	48,5	20	8	10,5	10	7	6,4	100/100
80637			8	5/16"	10	16	51	20	10	13	10	7	8,4	100/100
80643			10	3/8"	10	17	53	20	12	15	10	7	10,5	100/100
80649			12	1/2"	10	19	54	20	13	16	10	7	13	100/100
80737	35	(2)	8	5/16"	12	17	55	20	10	13	12,5	8,5	8,4	100/100
80743			10	3/8"	12	19	57	20	12	15	12,5	8,5	10,5	100/100
80749			12	1/2"	12	21	58	20	13	16	12,5	8,5	13	100/100
80837	50	(1/0)	8	5/16"	14	20	65	28	10	13	14	10	8,4	50/50
80843			10	3/8"	14	22	67	28	12	15	14	10	10,5	50/50
80849			12	1/2"	14	24	68	28	13	16	14	10	13	50/50
80861			16	5/8"	14	28	71	28	16	19	14	10	17	50/50
80937	70	(2/0)	8	5/16"	16	24	68	28	10	13	16	11,5	8,4	50/50
80943			10	3/8"	16	24	70	28	12	15	16	11,5	10,5	50/50
80949			12	1/2"	16	24	71	28	13	16	16	11,5	13	50/50
80961			16	5/8"	16	30	74	28	16	19	16	11,5	17	50/50
83143	95	(3/0)	10	3/8"	18	28	80	35	12	15	19	13,8	10,5	25/25
83149			12	1/2"	18	28	81	35	13	16	19	13,8	13	25/25
83161			16	5/8"	18	32	84	35	16	19	19	13,8	17	25/25
83243	120	(4/0)	10	3/8"	20	32	85	35	12	15	21	15,5	10,5	25/25
83249			12	1/2"	20	32	86	35	13	16	21	15,5	13	25/25
83261			16	5/8"	20	32	89	35	16	19	21	15,5	17	25/25
83267			20	3/4"	20	38	92	35	20	22	21	15,5	21	25/25
83343	150	(300)	10	3/8"	22	34	93	35	12	15	23,5	17	10,5	25/25
83349			12	1/2"	22	34	94	35	13	16	23,5	17	13	25/25
83361			16	5/8"	22	34	97	35	16	19	23,5	17	17	25/25
83367			20	3/4"	22	40	100	35	20	22	23,5	17	21	25/25
83443	185	(400)	10	3/8"	25	37	97	40	12	15	25,5	19	10,5	10/10
83449			12	1/2"	25	37	98	40	13	16	25,5	19	13	10/10
83461			16	5/8"	25	37	101	40	16	19	25,5	19	17	10/10
83467			20	3/4"	25	40	104	40	20	22	25,5	19	21	10/10
83549	240	(500)	12	1/2"	28	42	107	40	13	16	29	21,5	13	10/10
83561			16	5/8"	28	42	108	40	16	19	29	21,5	17	10/10
83567			20	3/4"	28	45	111	40	20	22	29	21,5	21	10/10

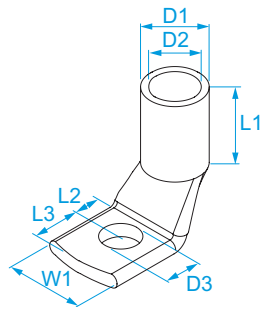
TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · DIN 46235 · NOT TINNED



TERMINAL MATERIAL: copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
DIMENSIONS: compliant to DIN 46235
ACCORDING TO STD.: DIN 46235
INSPECTION HOLE: no

TERMINALS

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
804251	10	(8)	5	#10	6	9	36	10	6	9	6	4,5	5,3	100/100
804311			6	#12	6	9	36	10	8	10,5	6	4,5	6,4	100/100
805311	16	(6)	6	#12	8	13	49	20	8	10,5	8,5	5,5	6,4	100/100
805371			8	5/16"	8	13	49	20	10	13	8,5	5,5	8,4	100/100
805431			10	3/8"	8	17	53	20	12	15	8,5	5,5	10,5	100/100
806311	25	(4)	6	#12	10	14	48,5	20	8	10,5	10	7	6,4	100/100
806371			8	5/16"	10	16	51	20	10	13	10	7	8,4	100/100
806431			10	3/8"	10	17	53	20	12	15	10	7	10,5	100/100
806491			12	1/2"	10	19	54	20	13	16	10	7	13	100/100
807371	35	(2)	8	5/16"	12	17	55	20	10	13	12,5	8,5	8,4	100/100
807431			10	3/8"	12	19	57	20	12	15	12,5	8,5	10,5	100/100
807491			12	1/2"	12	21	58	20	13	16	12,5	8,5	13	100/100
808371	50	(1/0)	8	5/16"	14	20	65	28	10	13	14	10	8,4	50/50
808431			10	3/8"	14	22	67	28	12	15	14	10	10,5	50/50
808491			12	1/2"	14	24	68	28	13	16	14	10	13	50/50
808611			16	5/8"	14	28	71	28	16	19	14	10	17	50/50
809371	70	(2/0)	8	5/16"	16	24	68	28	10	13	16	11,5	8,4	50/50
809431			10	3/8"	16	24	70	28	12	15	16	11,5	10,5	50/50
809491			12	1/2"	16	24	71	28	13	16	16	11,5	13	50/50
809611			16	5/8"	16	30	74	28	16	19	16	11,5	17	50/50
831431	95	(3/0)	10	3/8"	18	28	80	35	12	15	19	13,8	10,5	25/25
831491			12	1/2"	18	28	81	35	13	16	19	13,8	13	25/25
831611			16	5/8"	18	32	84	35	16	19	19	13,8	17	25/25
832431	120	(4/0)	10	3/8"	20	32	85	35	12	15	21	15,5	10,5	25/25
832491			12	1/2"	20	32	86	35	13	16	21	15,5	13	25/25
832611			16	5/8"	20	32	89	35	16	19	21	15,5	17	25/25
832671			20	3/4"	20	38	92	35	20	22	21	15,5	21	25/25
833431	150	(300)	10	3/8"	22	34	93	35	12	15	23,5	17	10,5	25/25
833491			12	1/2"	22	34	94	35	13	16	23,5	17	13	25/25
833611			16	5/8"	22	34	97	35	16	19	23,5	17	17	25/25
833671			20	3/4"	22	40	100	35	20	22	23,5	17	21	25/25
834431	185	(400)	10	3/8"	25	37	97	40	12	15	25,5	19	10,5	10/10
834491			12	1/2"	25	37	98	40	13	16	25,5	19	13	10/10
834611			16	5/8"	25	37	101	40	16	19	25,5	19	17	10/10
834671			20	3/4"	25	40	104	40	20	22	25,5	19	21	10/10
835491	240	(500)	12	1/2"	28	42	107	40	13	16	29	21,5	13	10/10
835611			16	5/8"	28	42	108	40	16	19	29	21,5	17	10/10
835671			20	3/4"	28	45	111	40	20	22	29	21,5	21	10/10

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · BENT 90° · FROM DIN 46235 TERMINAL LUGS

TERMINAL MATERIAL: tinned copper

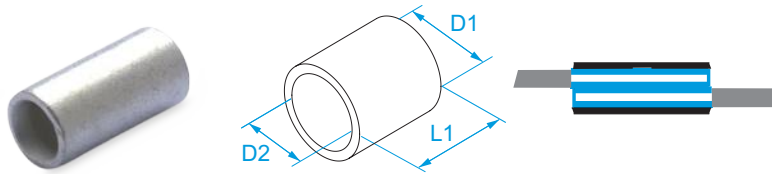
OPERATING TEMPERATURE: from -50 °C to +150 °C

DIMENSIONS: dimensions before bending are compliant to DIN 46235 standard

INSPECTION HOLE: no

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
805379	16	(6)	8	5/16"	8	13	20	10	13	8,5	5,5	8,4	100/100
805439			10	3/8"	8	17	20	12	15	8,5	5,5	10,5	100/100
806499	25	(4)	12	1/2"	10	19	20	13	16	10	7	13	100/100
807499	35	(2)	12	1/2"	12	21	20	13	16	12,5	8,5	13	100/100
808499	50	(1/0)	12	1/2"	14	24	28	13	16	14	10	13	50/50
809499	70	(2/0)	12	1/2"	16	24	28	13	16	16	11,5	13	50/50
831499	95	(3/0)	12	1/2"	18	28	35	13	16	19	13,8	13	25/25
831619			16	5/8"	18	32	35	16	19	19	13,8	17	25/25
832619	120	(4/0)	16	5/8"	20	32	35	16	19	21	15,5	17	25/25

PARALLEL CONNECTORS - UNINSULATED



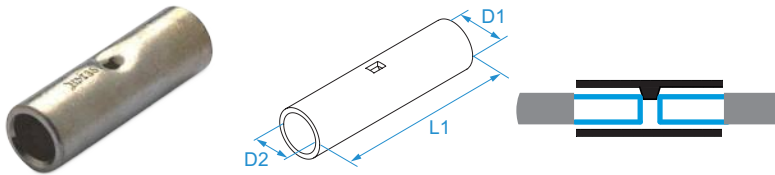
TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

HOW TO ASSEMBLE: overlap the two conductors

Code	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	D1 (mm)	D2 (mm)	
01162	0.25 ÷ 1.5	(22 - 16)	8	3,3	1,8	200/1000
01262	1.5 ÷ 2.5	(16 - 14)	8	4,1	2,5	200/1000
01362	4 ÷ 6	(12 - 10)	8,5	5,5	3,7	100/1000

BUTT CONNECTORS - UNINSULATED



TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

TYPE: with central inspection hole and flush for a right insertion of the conductor.

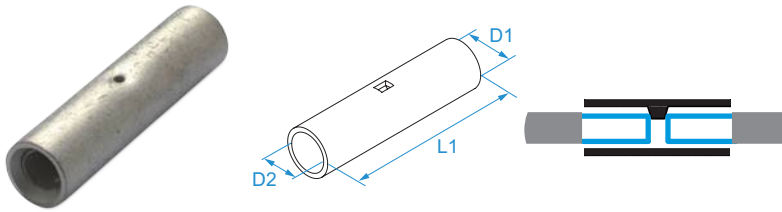
Code	Section (mm ²)	Section (AWG/MCM)	Indent	L1 (mm)	D1 (mm)	D2 (mm)	
01160**	0.25 ÷ 1.5	(22 - 16)	-	15	3,3	1,8	200/1000
01260**	1.5 ÷ 2.5	(16 - 14)	-	15	4,1	2,5	200/1000
01360**	4 ÷ 6	(12 - 10)	-	15	5,5	3,7	100/1000
01460**	10	(8)	7	25	7	5	100/500
01560*	16	(6)	7,5	28	8	6	100/500
01660*	25	(4)	9	28	9,5	7	100/300
01760*	35	(2)	11	36	11,5	8,5	100/300
01860*	50	(1/0)	12	36	13	10	50/50
01960	70	(2/0)	14	45	15	12	50/50
03160	95	(3/0)	16	46	17	13,8	50/50
03260*	120	(4/0)	18	50	19	15,5	50/50
03360*	150	(300)	20	60	21	17	25/25
03460*	185	(400)	22	64	25	19	25/25
03560*	240	(500)	25	73	27	21,5	25/25
03660*	300	(600)	28	75	30	24	25/25
03760	400	(800)	35	85	35	27	10/10
03860	500	(1000)	38	97	38	30	10/10
03960	600/630	(1250)	42	104	42	33,6	10/10



* file n° E 137735



** file n° E 137735

BUTT CONNECTORS - UNINSULATED - DIN 46267/1


TERMINAL MATERIAL: tinned copper

ACCORDING TO STANDARD: DIN 46267/1

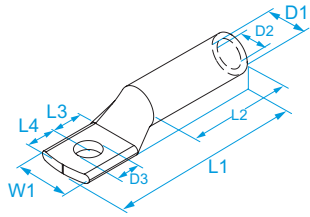
OPERATING TEMPERATURE: from -50 °C to +150 °C

TYPE: with central inspection hole and flush for a right insertion of the conductor.

DIMENSIONS: compliant to DIN 46267/1 standard

Code	Section (mm ²)	Section (AWG/MCM)	Indent	L1 (mm)	D1 (mm)	D2 (mm)	
81460	10	(8)	6	30	6	4,5	100/100
81560	16	(6)	8	50	8,5	5,5	100/100
81660	25	(4)	10	50	10	7	100/100
81760	35	(2)	12	50	12,5	8,5	100/100
81860	50	(1/0)	14	56	14	10	50/50
81960	70	(2/0)	16	56	16	12	50/50
83160	95	(3/0)	18	70	19	13,8	25/25
83260	120	(4/0)	20	70	21	15,5	25/25
83360	150	(300)	22	80	23,5	17	25/25
83460	185	(400)	25	85	25,5	19	25/25
83560	240	(500)	28	90	29	21,5	25/25

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · MEDIUM VOLTAGE



TERMINAL MATERIAL: tinned copper

RATED VOLTAGE: from 1 kV to 35 kV AC

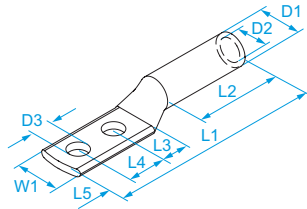
OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 2 (stranded non compacted circular, compacted circular and shaped conductors) according to EN 60228

INSPECTION HOLE: no

TERMINALS

Code	Conductor section no compacted circular or shaped (mm ²)	Conductor compacted circular section (mm ²)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
73025	25	35	8	5/16"	10	16,5	72	37	11	13	10	7	8,4	25/25
73125	25	35			10	20	76	37	13	16	10	7	13	25/25
73035	35	-			12	23	76	36	13	16	13	8,4	13	25/25
73050	50	-			12	20	77	35	17,5	13,5	13	9,5	13	25/25
73070	70	-			12	27	82	37,5	16	14	18	11,5	13	25/25
73095	95	-	12	1/2"	20	28	86,5	43	16	14	20	13,5	13	25/25
73120	120	150			22	32	93,5	49,5	16	14	23	15,3	13	25/25
73150	150	160			22	34	100	49	16	13	23,5	17	13	10/10
73200	185	240	14	9/16"	28	41,5	103	54	18	16	30	20	15	10/10
73240	240	300-315			28	43	103	53	18	16	30	21,8	15	10/10
73300	300	-			28	43	120	58	23	19	30	24	15	10/10
73400	400	-			35	50	131	66	23	19	35	27	15	10/10
73500	500	-			38	54,5	147	68	22	19	38	30	17	5/5
73630	630	-	16	5/8"	42	61	163	83	25	23	42	33,6	17	5/5

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · MEDIUM VOLTAGE · DOUBLE HOLE

TERMINAL MATERIAL: tinned copper

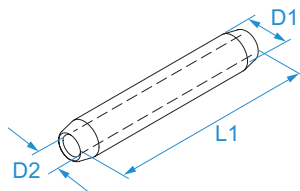
RATED VOLTAGE: from 1 kV to 35 kV AC

OPERATING TEMPERATURE: from -50 °C to +150 °C

CONDUCTOR CLASS: Class 2 (stranded non compacted circular, compacted circular and shaped conductors) according to EN 60228

INSPECTION HOLE: no

Code	Conductor section no compacted circular or shaped (mm ²)	Conductor compacted circular section (mm ²)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
73201	25	35	8	5/16"	10	16,5	117	37	11	44,5	13	10	7	8,4	25/50
73211	25	35			10	20	121	37	13	44,5	16	10	7	13	50/50
73202	35		12	1/2"	12	23	121	36	13	44,5	16	13	8,4	13	25/50
73203	50				12	20	122	35	17,5	44,5	13,5	13	9,5	13	25/50
73204	70				16	27	127	37,5	16	44,5	14	18	11,5	13	25/50
73205	95				20	28	131	43	16	44,5	14	20	13,5	15	10/10
73206	120	150			22	32	138	49,5	16	44,5	14	23	15,3	15	10/10
73207	150	160			22	34	145	49	16	44,5	13	23,5	17	15	10/10
73208	185	240	14	9/16"	28	41,5	148	54	18	44,5	16	30	20	15	10/10
73209	240	300-315			28	43	147	53	18	44,5	16	30	21,8	15	10/10
73210	300				28	43	150	46	18	44,5	16	30	24	15	10/10
73212	400				35	50	162	60	18	44,5	16	35	27	15	5/5
73213	500		16	5/8"	38	56	192	68	22	44,5	19	38	30	17	5/5
73214	630				42	61	208	83	25	44,5	23	42	33,6	17	5/5

JOINTS · FOR COPPER CONDUCTORS · MEDIUM VOLTAGE

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

VOLTAGE: up to 35kV

CHARACTERISTIC: conical edge at both sides

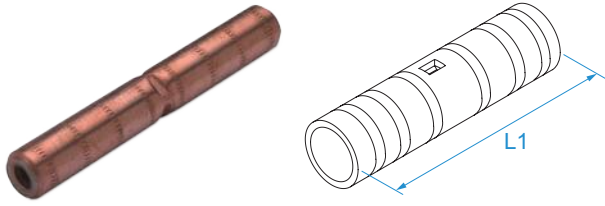
Code	Sezione conduttore non compatto circolare o settoriale	Conductor compacted circular section	Indent	L1 (mm)	D1 (mm)	D2 (mm)	
72025	25	35	10	60	10	7	25/50
72035	35	-	12	60	13	8,4	25/25
72050	50	-	12	60	13	9,5	25/25
72070	70	-	16	70	18	11,5	25/25
72095	95	-	20	80	20	13,5	25/25
72120	120 - 125	150	22	80	23	15,3	25/25
72150	150	160	22	80	23,5	17	25/25
72200	200	240	28	100	30	20	10/10
72240	240	300 - 315	28	100	30	21,8	10/10
72300	300 - 315	-	28	104	30	24	10/10
72400	400	-	35	116	35	27	5/5
72500	500	-	38	118	38	30	5/5
72630	630	-	42	130	42	33,6	5/5

FULL TENSILE JOINTS - FOR COPPER CONDUCTORS AND AERIAL LINES

TERMINAL MATERIAL: electrolytic copper

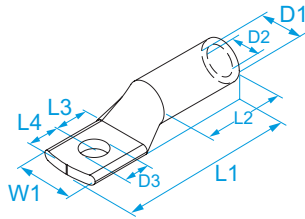
CHARACTERISTIC: high mechanical resistance to traction

APPLICATION: connection of medium voltage aerial lines



TERMINALS

Code	Section (mm ²)	Section (AWG/MCM)	Wires (# Wires)	conductor external Ø (mm)	L1 (mm)	
75010	10	(8)	7 x 1.35	4.05	62	25/25
75016	16	(6)	1 x 4.5	4.5	78	10/10
75017	16	(6)	7 x 1.35	5.1	78	10/10
75025	25	(4)	7 x 2.14	6.42	91	10/10
75035	35	(2)	7 x 2.52	7.56	100	10/10
75050	50	(1/0)	7 x 3, 19 x 1.80	9	125	10/10
75070	63 ÷ 70	(2/0)	19 x 2, 19 x 2.14	10.5 - 10.70	125	10/10
75095	95	(3/0)	19 x 2.52	12.6	189	10/10

TERMINAL LUGS FOR ALUMINUM CONDUCTORS - UNINSULATED - DIN 48201


TERMINAL MATERIAL: aluminum 1050 A EN573-3 with no less than 99.5% purity

OPERATING TEMPERATURE: from -50 °C to +150 °C

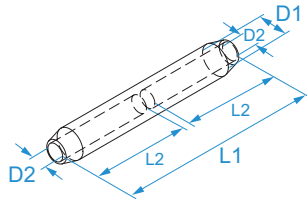
ACCORDING TO STD.: DIN 48201

PROTECTION: the conductor housing is filled with grease (dropping point 90 °C) and plugged with a plastic cap to avoid oxidation.

INSPECTION HOLE: no

Code	Conductor section no compacted circular or shaped (mm ²)	Conductor compacted circular section (mm ²)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
76016	16	25	8	5/16"	12	18	66	33,5	12,5	12,5	12	5,8	8,5	25/25
76017	16	25	10	3/8"	12	18	66	33,5	12,5	12,5	12	5,8	10,5	50/50
76025	25	35	8	5/16"	12	18	72,5	40	12,5	12,5	12	6,8	8,5	50/50
76026	25	35	10	3/8"	12	18	72,5	40	12,5	12,5	12	6,8	10,5	50/50
76035	35	50	10	3/8"	13	21	80	44	14	13	14	8	10,5	25/25
76036	35	50	12	1/2"	13	21	80	44	14	13	14	8	13	25/25
76050	50	70	10	3/8"	15	25	86	46	15	14	16	9,8	10,5	25/25
76051	50	70	12	1/2"	15	25	86	46	15	14	16	9,8	13	25/25
76070	70	95	10	3/8"	18	28	101	54	16	14	18,5	11,2	10,5	25/25
76071	70	95	12	1/2"	18	28	101	54	16	14	18,5	11,2	13	25/25
76095	95	120	10	3/8"	21	32	105	57	16	14	22	13,2	10,5	25/25
76096	95	120	12	1/2"	21	32	105	57	16	14	22	13,2	13	25/25
76097	95	120	16	5/8"	21	34	110	57	19	16	22	13,2	17	25/25
76120	120	150	12	1/2"	22	34	108	59	18	17	23	14,7	13	25/25
76121	120	150	16	5/8"	22	34	108	59	18	17	23	14,7	17	25/25
76150	150	185	12	1/2"	25	35	120	64	19	17	25	16,3	13	10/10
76151	150	185	16	5/8"	25	35	120	64	19	17	25	16,3	17	10/10
76152	150	185	20	3/4"	25	35	126	64	22	20	25	16,3	21	10/10
76185	185	240	12	1/2"	28	40	127	64	24,5	21	28,5	18,3	13	10/10
76186	185	240	16	5/8"	28	40	127	64	24,5	21	28,5	18,3	17	10/10
76187	185	240	20	3/4"	28	40	127	64	24,5	21	28,5	18,3	21	10/10
76240	240	300	12	1/2"	32	45	140	70	25	24	32	21	13	10/10
76241	240	300	16	5/8"	32	45	140	70	25	24	32	21	17	10/10
76242	240	300	20	3/4"	32	45	140	70	25	24	32	21	21	10/10

JOINTS - FOR ALUMINUM CONDUCTORS - MEDIUM VOLTAGE



TERMINAL MATERIAL: aluminum with no less than 99.5% purity

ACCORDING TO STD.: DIN 48201

OPERATING TEMPERATURE: from -50 °C to +150 °C

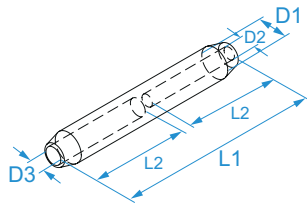
VOLTAGE: up to 35kV

PROTECTION: the conductor housing is filled with grease (dropping point 90°C) and plugged with a plastic cap to avoid oxidation.

TYPE: with central diaphragm for a right insertion of the conductor.
The diaphragm is sealed to avoid the mixture of paper filled cables to get in touch with cables with solid insulation.

Code	Section (mm ²)	Section (AWG/MCM)	Indent	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
70202	35 ÷ 35	(2 - 2)	20	138	67	20	8	10/10
70203	50 ÷ 50	(1/0 - 1/0)	20	138	67	20	9	10/10
70204	70 ÷ 70	(2/0 - 2/0)	20	138	67	20	11	10/10
70205	95 ÷ 95	(3/0 - 3/0)	20	138	67	20	12,5	10/10
70206	120 ÷ 120	(4/0 - 4/0)	25	164	80	25	13,7	10/10
70207	150 ÷ 150	(300 - 300)	25	164	80	25	15,5	10/10
70208	185 ÷ 185	(400 - 400)	32	176	86	32	17	10/10
70209	240 ÷ 240	(500 - 500)	32	176	86	32	19,5	10/10

REDUCTION JOINTS - FOR ALUMINUM OR COPPER CONDUCTORS - MEDIUM VOLTAGE



TERMINAL MATERIAL: aluminum with no less than 99.5% purity

ACCORDING TO STD.: DIN 48201

OPERATING TEMPERATURE: from -50 °C to +150 °C

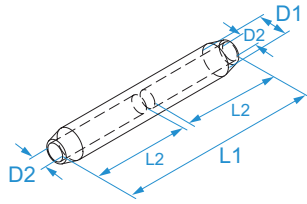
VOLTAGE: up to 35kV

PROTECTION: the conductor housing is filled with grease (dropping point 90°C) and plugged with a plastic cap to avoid oxidation.

TYPE: with central diaphragm for a right insertion of the conductor.
The diaphragm is sealed to avoid the mixture of paper filled cables to get in touch with cables with solid insulation.

APPLICATION: connection of Al conductors to smaller Al or Cu conductors

Code	Section (mm ²)	Section (AWG/MCM)	Indent	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
70232	50 ÷ 35	(1/0 - 2)	20	138	67	20	8	9	10/10
70243	70 ÷ 50	(2/0 - 1/0)	20	138	67	20	9	11	10/10
70253	95 ÷ 50	(3/0 - 1/0)	20	138	67	20	9	12,5	10/10
70254	95 ÷ 70	(3/0 - 2/0)	20	138	67	20	11	13,7	10/10
70264	120 ÷ 70	(4/0 - 2/0)	25	164	80	25	11	13,7	10/10
70265	120 ÷ 95	(4/0 - 3/0)	25	164	80	25	12,5	15,5	10/10
70275	150 ÷ 95	(300 - 3/0)	25	164	80	25	12,5	15,5	10/10
70276	150 ÷ 120	(300 - 4/0)	25	164	80	25	13,7	17	10/10
70284	185 ÷ 50	(400 - 1/0)	32	176	86	32	9	17	10/10
70285	185 ÷ 95	(400 - 3/0)	32	176	86	32	12,5	17	10/10
70286	185 ÷ 120	(400 - 4/0)	32	176	86	32	13,7	17	10/10
70287	185 ÷ 150	(400 - 300)	32	176	86	32	15,5	17	10/10
70297	240 ÷ 150	(500 - 300)	32	176	86	32	15,5	19,5	10/10
70298	240 ÷ 185	(500 - 400)	32	176	86	32	17	19,5	10/10

JOINTS - FOR ALUMINUM CONDUCTORS - DIN 48201


TERMINAL MATERIAL: aluminum 1050 A EN573-3 with no less than 99.5% purity

ACCORDING TO STD.: DIN 48201

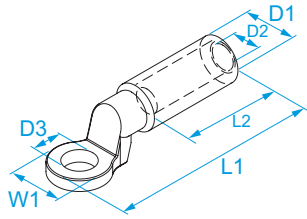
OPERATING TEMPERATURE: from -50 °C to +150 °C

PROTECTION: the conductor housing is filled with grease (dropping point 90°C) and plugged with a plastic cap to avoid oxidation.

TYPE: with central and sealed diaphragm for a right insertion of the conductor.

Code	Section (mm ²)	Section (AWG/MCM)	Indent	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	
70402	35 ÷ 35	(2 - 2)	13	95	45,5	14	8	10/10
70403	50 ÷ 50	(1/0 - 1/0)	15	95	45,5	16	9,8	10/10
70404	70 ÷ 70	(2/0 - 2/0)	18	100	48	18,5	11,2	1/1
70405	95 ÷ 95	(3/0 - 3/0)	21	105	50,5	22	13,5	10/10
70406	120 ÷ 120	(4/0 - 4/0)	22	110	52,5	23	14,7	10/10
70407	150 ÷ 150	(300 - 300)	25	110	52,5	25	16,3	1/1
70408	185 ÷ 185	(400 - 400)	28	130	62	28,5	18,3	1/1
70409	240 ÷ 240	(500 - 500)	32	130	62	32	21	5/5

BIMETALLIC TERMINAL LUGS - UNINSULATED - RING



PALM MATERIAL: copper 99.9%

BARREL MATERIAL: aluminum 99.5%

CONDUCTOR CABLE MATERIAL: L.V. and M.V. aluminium

OPERATING TEMPERATURE: from -50 °C to +150 °C

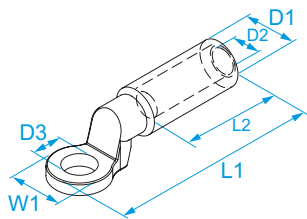
APPLICATIONS: useful where an aluminum cable has to be terminated by a copper bus bar or copper contact. Indeed a galvanic action occurs if terminals of only copper or aluminum are used due to dissimilar contact.

PROTECTION: the conductor housing is filled with grease (dropping point 90 °C) and plugged with a plastic cap to avoid oxidation.

INSPECTION HOLE: no

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
70000	16	(6)	12	1/2"	15	22,5	87	47,5	16	5,6	13	10/10
70001	25	(4)	12	1/2"	15	22,5	87	47,5	16	6,6	13	10/10
70002	35	(2)	12	1/2"	20	25	88	47,5	20	8,2	13	10/10
70003	50	(1/0)	12	1/2"	20	25	88	47,5	20	9,2	13	10/10
70004	70	(2/0)	12	1/2"	20	25	88	47,5	20	11,2	13	10/10
70005	95	(3/0)	12	1/2"	20	25	88	47,5	20	12,7	13	10/10
70006	120	(4/0)	12	1/2"	25	32	113	64,5	25	13,9	13	10/10
70007	150	(300)	12	1/2"	25	32	113	64,5	25	15,7	13	10/10
70008	185	(400)	12	1/2"	32	35,5	118	64,5	32	17,2	13	10/10
70009	240	(500)	12	1/2"	32	35,5	118	64,5	32	19,7	13	10/10
70010	300	(600)	12	1/2"	35	35,5	145	90	34	23,3	13	10/10

BIMETALLIC TERMINAL LUGS - UNINSULATED DIN 48201 - RING



PALM MATERIAL: copper 99.9%

BARREL MATERIAL: aluminum 99.5%

CONDUCTOR CABLE MATERIAL: L.V. and M.V. aluminium

OPERATING TEMPERATURE: from -50 °C to +150 °C

APPLICATIONS: useful where an aluminum cable has to be terminated by a copper bus bar or copper contact. Indeed a galvanic action occurs if terminals of only copper or aluminum are used due to dissimilar contact.

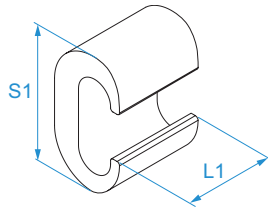
ACCORDING TO STD.: DIN 48201

PROTECTION: the conductor housing is filled with grease (dropping point 90 °C) and plugged with a plastic cap to avoid oxidation.

INSPECTION HOLE: no

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
70602	35	(2)	12	1/2"	13	25	90	43	14	8	13	25/25
70603	50	(1/0)	12	1/2"	15	25	92	43	16	9,8	13	25/25
70604	70	(2/0)	12	1/2"	18	25	92	45	18,5	11,2	13	20/20
70605	95	(3/0)	12	1/2"	21	25	92	45	22	13,2	13	20/20
70606	120	(4/0)	12	1/2"	22	32	120	60	23	14,7	13	10/10
70607	150	(300)	12	1/2"	25	32	120	60	25	16,3	13	10/10
70608	185	(400)	12	1/2"	28	35,5	125	60	28,5	18,3	13	10/10
70609	240	(500)	12	1/2"	32	35,5	125	65	32	21	13	10/10

C SHUNT



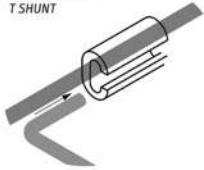
TERMINAL MATERIAL: copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

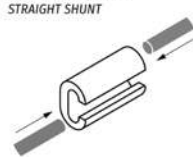
APPLICATION: connectors for ground connections

Code	Section (mm ²)	Section (AWG/MCM)	Straight T shunt Primary (mm ²)	Straight T shunt Derivative (mm ²)	Cross shunt Section (mm ²)	L1 (mm)	S1 (mm)	
01416	6 ÷ 6	(10 - 10)	6 - 2.5	6 - 1.5	-	9	9,8	25/25
01400	10 ÷ 10	(8 - 8)	10	10 - 1.5	-	12	12,6	100/100
01401	16 ÷ 16	(6 - 6)	16	16 - 2.5	-	17,5	19,4	100/100
01408	25 ÷ 10	(4 - 8)	25 - 16	10 - 1.5	-	17	19,8	100/100
01402	25 ÷ 25	(4 - 4)	25	25 - 16	-	17,5	21,4	100/100
01409	35 ÷ 16	(2 - 6)	40 - 10	16 - 1.5	25 - 25	21,5	24,6	100/100
01403	35 ÷ 35	(2 - 2)	40 - 35	40 - 25	35 - 35	21,5	26,6	100/100
01410	50 ÷ 25	(1/0 - 4)	50	25 - 4	-	26,5	32,9	25/25
01404	50 ÷ 50	(1/0 - 1/0)	50	50 - 35	-	26,5	33	25/25
01411	70 ÷ 35	(2/0 - 2)	70 - 63	40 - 4	-	27	33	25/25
01405	70 ÷ 70	(2/0 - 2/0)	70 - 50	70 - 35	50 - 50	27	34	25/25
01412	95 ÷ 35	(3/0 - 2)	95 - 63	40 - 4	-	30	40,5	25/25
01406	95 ÷ 95	(3/0 - 3/0)	100 - 80	100 - 63	-	30	41	25/25
01413	95 ÷ 70	(3/0 - 2/0)	100 - 80	70 - 50	63 - 63, 70 - 70	30	41	25/25
01407	120 ÷ 120	(4/0 - 4/0)	125 - 110	125 - 25	-	30	45	25/25
01414	150 ÷ 120	(300 - 4/0)	160 - 150	125 - 25	95 - 95, 120 - 120	31	45	25/25
01417	150 ÷ 150	(300 - 300)	150	150 - 63	-	30	45,3	25/25
01415	185 ÷ 95	(400 - 3/0)	185	100 - 16	125 - 125	31	45	25/25
01418	185 ÷ 185	(400 - 400)	185 - 120	185 - 120	-	22,6	68	15/15
01421	240 ÷ 120	(500 - 4/0)	240 - 150	120 - 95	-	22,6	68	15/15

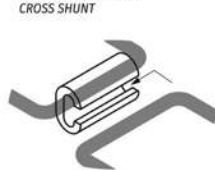
DERIVAZIONE A T
T SHUNT



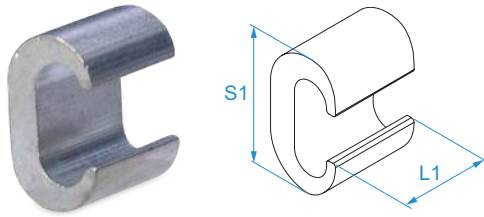
DERIVAZIONE DIRITTA
STRAIGHT SHUNT



DERIVAZIONE A CROCE
CROSS SHUNT



C SHUNT - TINNED COPPER



TERMINAL MATERIAL: tinned copper
OPERATING TEMPERATURE: from -50 °C to +150 °C
APPLICATION: connectors for ground connections

TERMINALS

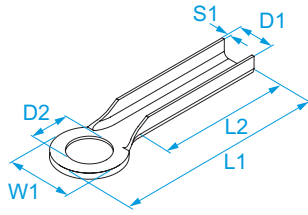
Code	Section (mm ²)	Section (AWG/MCM)	Straight T shunt Primary (mm ²)	Straight T shunt Derivative (mm ²)	Cross shunt Section (mm ²)	L1 (mm)	S1 (mm)	
014161	6 ÷ 6	(10 - 10)	6 - 2.5	6 - 1.5	-	9	9,8	100/100
014001	10 ÷ 10	(8 - 8)	10	10 - 1.5	-	12	12,6	100/100
014011	16 ÷ 16	(6 - 6)	16	16 - 2.5	-	17,5	19,4	100/100
014081	25 ÷ 10	(4 - 8)	25 - 16	10 - 1.5	-	17	19,8	100/100
014021	25 ÷ 25	(4 - 4)	25	25 - 16	-	17,5	21,4	100/100
014091	35 ÷ 16	(2 - 6)	40 - 10	16 - 1.5	25 - 25	21,5	24,6	100/100
014031	35 ÷ 35	(2 - 2)	40 - 35	40 - 25	35 - 35	21,5	26,6	100/100
014101	50 ÷ 25	(1/0 - 4)	50	25 - 4	-	26,5	32,9	25/25
014041	50 ÷ 50	(1/0 - 1/0)	50	50 - 35	-	26,5	33	25/25
014111	70 ÷ 35	(2/0 - 2)	70 - 63	40 - 4	-	27	33	25/25
014051	70 ÷ 70	(2/0 - 2/0)	70 - 50	70 - 35	50 - 50	27	34	25/25
014121	95 ÷ 35	(3/0 - 2)	95 - 63	40 - 4	-	30	40,5	25/25
014061	95 ÷ 95	(3/0 - 3/0)	100 - 80	100 - 63	-	30	41	25/25
014131	95 ÷ 70	(3/0 - 2/0)	100 - 80	70 - 50	63 - 63, 70 - 70	30	41	25/25
014071	120 ÷ 120	(4/0 - 4/0)	125 - 110	125 - 25	-	30	45	25/25
014141	150 ÷ 120	(300 - 4/0)	160 - 150	125 - 25	95 - 95, 120 - 120	31	45	25/25
014171	150 ÷ 150	(300 - 300)	150	150 - 63	-	30	45,3	25/25
014151	185 ÷ 95	(400 - 3/0)	185	100 - 16	125 - 125	31	45	25/25
014181	185 ÷ 185	(400 - 400)	185 - 120	185 - 120	-	22,6	68	15/15
014211	240 ÷ 120	(500 - 4/0)	240 - 150	120 - 95	-	22,6	68	15/15



TERMINAL LUGS FOR COPPER CONDUCTORS FOR GROUND · UNINSULATED · RING

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

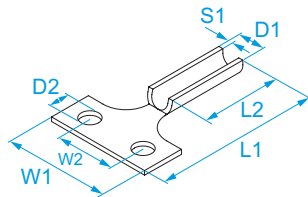


Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
79135	35	(2)	16	5/8"	14	28	84	47	10,8	17	3	25/25

TERMINAL LUGS FOR COPPER CONDUCTORS FOR GROUND · UNINSULATED · RECTANGULAR

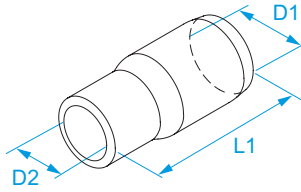
TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C



Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	Indent	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	
79235	35	(2)	12	1/2"	14	70	40	100	47	10,8	13	3	25/25

ACCESSORIES FOR UNINSULATED TERMINAL LUGS · INSULATING SLEEVES




MATERIAL: PVC


INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

MAX OPERATING TEMPERATURE: 105°C

COLOR: black

Code	Section (mm ²)	Section (AWG/MCM)	L1 (mm)	D1 (mm)	D2 (mm)	
81001	1,5	(16)	15	3,8	3,5	100/1000
81002	2,5	(14)	16,7	5	4	100/1000
81006	6	(10)	20,6	7	5,2	100/1000
81010	10	(8)	21	6,8	6,3	100/1000
81016	16	(6)	28	8	7	100/1000
81025	25	(4)	28	8	7,6	100/1000
81035	35	(2)	29	10,3	9,2	100/1000
81050	50	(1/0)	34	12	10,3	100/500
81070	70	(2/0)	42	14	13,5	100/500
81095	95	(3/0)	46	17	16	50/250
81120	120	(4/0)	55	20	18	50/250
81150	150	(300)	60	22	20	50/250
81185	185	(350)	65	24	22	50/150
81240	240	(500)	69	30	24	50/150
81300	300	(600)	75	32	27	50/150
81400	400	(800)	75	34	30	25/75

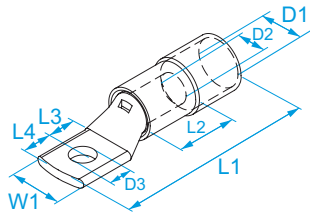
V0

Code	Color	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
055491	Black	240	(500)	240	(500)	12	1/2"	39,5	100	35	16	14	30	21,5	13	25/25
055551	Black					14	9/16"	39,5	108	35	18	16	30	21,5	15	25/25
055611	Black					16	5/8"	39,5	112	35	19	17	30	21,5	17	25/25
055671	Black					20	3/4"	39,5	124	35	22	20	30	21,5	21	25/25
05649	Black	300	(600)	240	(500)	12	1/2"	44	119	38	22	20	33	24	13	25/25
05661	Black					16	5/8"	44	119	38	22	20	33	24	17	10/10
05667	Black					20	3/4"	44	119	38	22	20	33	24	21	10/10

HALOGEN
FREE

 125 °C

VO

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · CLASS 6

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

OPERATING TEMPERATURE: 125 °C max

CONDUCTOR CLASS: Class 6 according to EN 60228

APPLICATIONS: crimping of very flexible conductors designed to withstand repeated twists and bendings (eg robotic systems, welding machines, etc).

INSPECTION HOLE: yes

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
004191					5	#10	10	37	9,5	6,3	5	8,2	5	5,2	100/100
004311					6	#12	11	40	9,5	6,5	5,5	8,2	5	6,3	100/100
004371	10	(8)	10	(8)	8	5/16"	13,6	43	9,5	8,8	6,2	8,2	5	8,5	100/100
004431					10	3/8"	17,2	49,2	9,5	9,6	9,5	8,2	5	10,5	100/100
004491					12	1/2"	17	49,3	9,5	9,3	9,3	8,2	5	12,2	100/100
005251					5	#10	11,5	43,6	12	8,7	6,3	9	6	5,3	100/100
005311					6	#12	11,5	44	12	8,5	6	9	6	6,5	100/100
005371	16	(6)	16	(6)	8	5/16"	15	44	12	9	8	9	6	8,5	100/100
005431					10	3/8"	17,5	50	12	10,5	10	9	6	10,5	100/100
005491					12	1/2"	17,5	54	12	10,5	10	9	6	13	100/100
006251					5	#10	14	50	13,5	10	7	11,5	7	5,2	100/100
006311					6	#12	14	50	13,5	10	7	11,5	7	6,3	100/100
006371	25	(4)	25	(4)	8	5/16"	14	50	13,5	10	8	11,5	7	8,4	100/100
006431					10	3/8"	17	51	14	10,5	9,5	11,5	7	10,5	100/100
006491					12	1/2"	18,5	51	14	11	9,5	11,5	7	13	100/100
007314					6	#12	17	55	15	9,5	6	14	9,3	6,4	25/25
007374					8	5/16"	17	57,5	15	10,5	10	14	9,3	8,5	25/25
007434	35	(2)	35	(2)	10	3/8"	17	61	15	12	9,5	14	9,3	10,5	25/25
007494					12	1/2"	17	63	15	14	11,5	14	9,3	13	25/25
008314					6	#12	20,3	59,5	18	11	10	15,5	11	6,5	25/25
008374					8	5/16"	20,3	64,5	18	11	10	15,5	11	8,5	25/25
008434	50	(1/0)	50	(1/0)	10	3/8"	20,5	65	18	14,5	9,3	15,5	11	10,5	25/25
008494					12	1/2"	24	68	18	15	12	15,5	11	12,5	25/25
009314					6	#12	23,5	71,5	20,5	11	10	18	13	6,5	25/25
009374					8	5/16"	23,5	71,5	20,5	11	10	18	13	8,5	25/25
009434					10	3/8"	23,5	75	20,5	14,5	11,2	18	13	10,5	25/25
009494	70	(2/0)	70	(2/0)	12	1/2"	23,5	70,5	20,5	13	13	18	13	12,5	25/25
009554					14	9/16"	23,5	75,5	20,5	14	11,3	18	13	14,5	25/25
009614					16	5/8"	23,5	75,5	20,5	14	11,3	18	13	16,5	25/25
051374					8	5/16"	27,5	83	23	12,5	12,5	19,5	15	8,5	25/25
051434					10	3/8"	27,5	83	23	12,5	12,5	19,5	15	10,5	25/25
051494	95	(3/0)	95	(3/0)	12	1/2"	27,5	84	23	14	13	19,5	15	12,5	25/25
051554					14	9/16"	25	87	23	17	13	19,5	15	14,5	25/25
051614					16	5/8"	25	94	23	17	13,5	19,5	15	16,5	25/25
052374					8	5/16"	31	87,5	28	13	11	23	17	8,4	25/25
052434					10	3/8"	31	87,5	28	13	11	23	17	10,4	25/25
052494	120	(4/0)	120	(4/0)	12	1/2"	31	93,5	28	14	13	23	17	12,5	25/25
052554					14	9/16"	31	94	28	15,5	15	23	17	14,5	25/25
052614					16	5/8"	31	98	30	15	16	23	17	16,5	25/25
053374					8	5/16"	35	102	30	15	13	26	19	8,5	25/25
053434					10	3/8"	35	103	30	18	16	26	19	10,5	25/25
053494	150	(300)	150	(300)	12	1/2"	36	105	30	14	17	26	19	12,5	25/25
053554					14	9/16"	36	110	30	16	16	26	19	14,5	25/25
053614					16	5/8"	36	108	30	15	17	26	19	17	25/25

Code	Rigid conductor section (mm ²)	Rigid conductor section (AWG/MCM)	Flexible conductor section (mm ²)	Flexible conductor section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
053674	150	(300)	150	(300)	20	3/4"	36	102	30	22	17	26	19	21	25/25
054494	185	(400)	185	(400)	12	1/2"	39	110	35	16	14	30	21,5	13	25/25
054554					14	9/16"	39	114	35	18	16	30	21,5	15	25/25
054614					16	5/8"	39	116	35	19	17	30	21,5	17	25/25
054674					20	3/4"	39	119	35	22	20	30	21,5	21	25/25

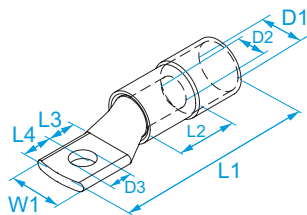
HALOGEN FREE

125 °C

VO

SUPERFLEX

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · SMALL PLATE



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

OPERATING TEMPERATURE: 125 °C max

APPLICATIONS: the reduced width of the palm allows connection to equipment with lugs of dimensions not suitable for standard terminals.

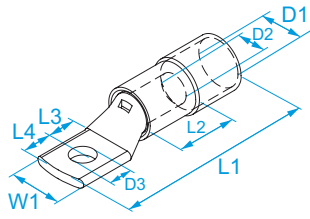
INSPECTION HOLE: no

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
917313	Black	35	(2)	6	#12	15	55	16	8	7	14	8,5	6,5	25/25
918313	Black	50	(1/0)	6	#12	15	58	18	8	7	15,5	10	6,5	25/25
918433	Black			10	3/8"	18,5	68	18	13,5	9,5	15,5	10	10,5	25/25
919313	Black	70	(2/0)	6	#12	17	67,5	20	9,5	6,5	18	12	6,5	25/25
919433	Black			10	3/8"	19	73,5	21	13	10	18	12	10,5	25/25
931373	Black	95	(3/0)	8	5/16"	19	76,5	24	12	8	19,5	13,8	8,5	25/25
931433	Black			10	3/8"	19	80,5	22	13	10	19,5	13,8	10,5	25/25
932373	Black	120	(4/0)	8	5/16"	19	83	22	12	9	21	15,5	8,5	25/25
932433	Black			10	3/8"	19	83	22	12	9	21	15,5	10,5	25/25
933373	Black	150	(300)	8	5/16"	19	93,5	30	17	9	23	17	8,4	25/25
933433	Black			10	3/8"	19	93,5	30	17	9	23	17	10,5	25/25
934493	Black	185	(400)	12	1/2"	31	110	32	17	14	26	19	13	25/25
935493	Black	240	(500)	12	1/2"	31,5	119	39	17	14	30	21,5	13	25/25

HALOGEN FREE

125 °C

VO

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · COLOURED


For the same conductor section, insulants are available with different diameters to accommodate conductors with different insulant thicknesses.

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V2

OPERATING TEMPERATURE: 130 °C max

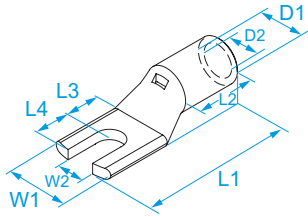
CONDUCTOR CLASS: Class 1 and 2 (rigid) and Class 5 (flexible) according to EN 60228

INSPECTION HOLE: yes

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)			
001071	Red	1.5	(16)	3	#4	8	23	5	5	4	4,2	1,9	3,2	100/100		
001191	Red			4	#8	8	23	5	5	4	4,2	1,9	4,2	100/100		
001251	Red			5	#10	8	23	5	5	4	4,2	1,9	5,2	100/100		
001311	Red			6	#12	10	23	5	6	5	4,2	1,9	6,3	100/100		
002191	Blue	2.5	(14)	4	#8	8	24,3	7	5	4	4,8	2,4	4,2	100/100		
002251	Blue			5	#10	10	28,3	7	6	5	4,8	2,4	5,2	100/100		
002311	Blue			6	#12	10	24,3	7	6	5	4,8	2,4	6,3	100/100		
003191	Yellow	6	(10)	4	#8	10	33,3	9	6	5	6,6	3,5	4,2	100/100		
003251	Yellow			5	#10	10	29,3	9	6	5	6,6	3,5	5,2	100/100		
003311	Yellow			6	#12	10	29,3	9	6	5	6,6	3,5	6,3	100/100		
003371	Yellow			8	5/16"	12	35,3	9	9	6	6,6	3,5	8,2	100/100		
003431	Yellow			10	3/8"	15	42,3	9	11	9	6,6	3,5	10,2	100/100		
00419	Red	10	(8)	5	#10	10	37	9,5	6,3	5	16	5	5,2	100/100		
00420	Red			5	#10	10	37	9,5	6,3	5	14,8	5	5,2	100/100		
00431	Red			6	#12	11	40	9,5	6,5	5,5	8,2	5	6,3	100/100		
00432	Red			6	#12	11	40	9,5	6,5	5,5	14,8	5	6,3	100/100		
00437	Red			8	5/16"	13,6	40,4	9,5	8,8	6,2	16	5	8,5	100/100		
00438	Red			8	5/16"	13,6	40,4	9,5	8,8	6,2	14,8	5	8,5	100/100		
00443	Red			10	3/8"	17,2	48,7	9,5	9,6	9,5	16	5	10,5	100/100		
00444	Red			10	3/8"	17,2	48,7	9,5	9,6	9,5	14,8	5	10,5	100/100		
00525	Blue			16	(6)	5	#10	11,5	43,6	11	8,7	6,3	9	6	5,3	100/100
00526	Red					5	#10	11,5	43,6	11	8,7	6,3	16	6	5,3	100/100
00531	Blue	6	#12			11,5	44,6	11	8,5	6	9	6	6,5	100/100		
00532	Red	6	#12			11,5	44,6	11	8,5	6	16	6	6,5	100/100		
00537	Blue	8	5/16"			15	44	12	9	8	9	6	8,5	100/100		
00538	Red	8	5/16"			15	44	12	9	8	16	6	8,5	100/100		
00543	Blue	10	3/8"			17,5	49,5	12	10,5	10	9	6	10,5	100/100		
00544	Red	10	3/8"			17,5	49,5	12	10,5	10	16	6	10,5	100/100		
00547	Red	12	1/2"			17,5	53,5	12	10,5	10	16	6	13	100/100		
00549	Blue	12	1/2"			17,5	53,5	12	10,5	10	9	6	13	100/100		
00625	Yellow	25	(4)	5	#10	14	50	13,5	10	7	11,5	7	5,2	100/100		
00626	Red			5	#10	14	50	13,5	10	7	16,8	7	5,2	100/100		
00631	Yellow			6	#12	14	50	13,5	10	7	11,5	7	6,3	100/100		
00632	Red			6	#12	14	50	13,5	10	7	16,8	7	6,3	100/100		
00637	Yellow			8	5/16"	14	50	13,5	10	8	11,5	7	8,4	100/100		
00638	Red			8	5/16"	14	50	13,5	10	8	16,8	7	8,4	100/100		
00643	Yellow			10	3/8"	17	51	14	10,5	9,5	11,5	7	10,5	100/100		
00644	Red			10	3/8"	17	51	14	10,5	9,5	16,8	7	10,5	100/100		
00649	Yellow			12	1/2"	18,5	51	14	11	9,5	11,5	7	13	100/100		
006492	Red			12	1/2"	18,5	51	14	11	9,5	16,8	7	13	100/100		
00731	Red	35	(2)	6	#12	17	57	15	9,5	6	14	8,5	6,4	100/100		
00732	Red			6	#12	17	57	15	9,5	6	18,7	8,5	6,4	100/100		

Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	
00737	Red	35	(2)	8	5/16"	17	56	15	10,5	10	14	8,5	8,5	100/100
00738	Red			8	5/16"	17	56	15	10,5	10	18,7	8,5	8,5	100/100
00743	Red			10	3/8"	17	64	15	12	9,5	14	8,5	10,5	100/100
00744	Red			10	3/8"	17	64	15	12	9,5	18,7	8,5	10,5	100/100
00749	Red			12	1/2"	17	63	15	14	11,5	14	8,5	13	100/100
00752	Red			12	1/2"	17	63	15	14	11,5	18,7	8,5	13	100/100
00831	White	50	(1/0)	6	#12	18,7	52	18	9	9	15,5	10	6,4	100/100
00832	Red			6	#12	18,7	52	18	9	9	20,8	10	6,4	100/100
00837	White			8	5/16"	18,7	61	18	10	10	15,5	10	8,4	100/100
00838	Red			8	5/16"	18,7	61	18	10	10	20,8	10	8,4	100/100
00843	White			10	3/8"	18,7	61	18	11	11	15,5	10	10,5	50/100
00844	Red			10	3/8"	18,7	61	18	11	11	20,8	10	10,5	50/100
00849	White			12	1/2"	21	69	18	15,3	12	15,5	10	12,5	100/100
00852	Red			12	1/2"	21	69	18	15,3	12	20,8	10	12,5	100/100
00855	White			14	9/16"	22	70	17	15,3	12	15,5	10	14,5	100/100
00856	Red			14	9/16"	22	70	17	15,3	12	20,8	10	14,5	100/100
00937	Blue	70	(2/0)	8	5/16"	21,8	72	20,5	11	10	22	12	8,5	100/100
00943	Blue			10	3/8"	21,8	75	20,5	14,5	11,2	22	12	10,5	100/100
00949	Blue			12	1/2"	22	75	20,5	13	13	22	12	12,5	100/100
00955	Blue			14	9/16"	22	75	20,5	14	11,3	22	12	14,5	100/100
00961	Blue			16	5/8"	22	75	20,5	14	11,3	22	12	16,5	100/100
05137	White	95	(3/0)	8	5/16"	25	83	23	12,5	12,5	26	13,8	8,5	50/50
05143	White			10	3/8"	25	83	23	12,5	12,5	26	13,8	10,5	50/50
05149	White			12	1/2"	25	84	23	14	13	26	13,8	12,5	50/50
05155	White			14	9/16"	25	90	23	17	13	26	13,8	14,5	50/50
05161	White			16	5/8"	25	89	23	17	13,5	26	13,8	16,5	25/25
05237	Red	120	(4/0)	8	5/16"	28	94	25	14	14	27	15,5	8,5	25/25
05243	Red			10	3/8"	28	94	25	14	14	27	15,5	10,5	25/25
05249	Red			12	1/2"	28	90	25	14	14	27	15,5	12,5	25/25
05255	Red			14	9/16"	28	96	25	25	26	27	15,5	14,5	50/50
05261	Red			16	5/8"	28	102	25	15	16	27	15,5	16,5	25/25
05337	Blue			150	(300)	8	5/16"	31	87,5	28	13	11	29	17
05343	Blue	10	3/8"			31	87,5	28	13	11	29	17	10,4	50/50
05349	Blue	12	1/2"			31	93,5	28	14	13	29	17	12,5	25/25
05355	Blue	14	9/16"			31	94	28	15,5	15	29	17	14,5	25/25
05361	Blue	16	5/8"			31	98	30	15	16	29	17	16,5	50/50
05367	Blue	20	3/4"			31	98	30	22	16	29	17	21	25/25
05449	Red	185	(400)	12	1/2"	35	90	30	16	14	32	19	13	25/25
05455	Red			14	9/16"	35	98	30	18	16	32	19	15	25/25
05461	Red			16	5/8"	35	102	30	19	17	32	19	17	25/25
05467	Red			20	3/4"	35	112	30	22	20	32	19	21	25/25
05549	Red	240	(500)	12	1/2"	39,5	100	35	16	14	36	21,5	13	25/25
05555	Red			14	9/16"	39,5	108	35	18	16	36	21,5	15	25/25
05561	Red			16	5/8"	39,5	112	35	19	17	36	21,5	17	25/25
05567	Red			20	3/4"	39,5	124	35	22	20	36	21,5	21	25/25

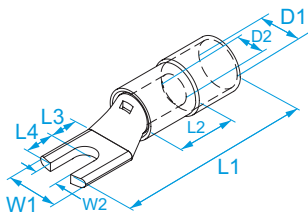


TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · FORK

TERMINAL MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

INSPECTION HOLE: yes

Code	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	
01420	10	(8)	4	#8	10	4,3	30,5	9,5	8	7	7	5	100/300
01426			5	#10	10	5,3	30,5	9,5	8	7	7	5	100/300
01523	16	(6)	4	#8	11,5	4,3	34	11	9,5	8	8	6	100/300
01526			5	#10	11,5	5,3	34	11	9,5	8	8	6	100/300

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · FORK

TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

OPERATING TEMPERATURE: 125 °C max

INSPECTION HOLE: yes

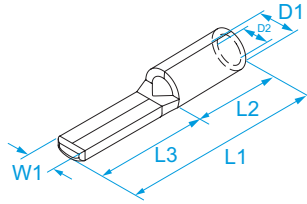
Code	Color	Section (mm ²)	Section (AWG/MCM)	For screw Ø screw (mm)	For screw Stud size	W1 (mm)	W2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	D2 (mm)	
004201	■ Black	10	(8)	4	#8	10	4,3	42	9,5	8	7	8,2	5	100/100
004261	■ Black			5	#10	10	5,3	42	9,5	8	7	8,2	5	100/100
005231	■ Black	16	(6)	4	#8	11,5	4,3	47	11	9,5	8	9	6	100/100
005261	■ Black			5	#10	11,5	5,3	47	11	9,5	8	9	6	100/100

HALOGEN FREE

125 °C

V0

TERMINAL LUGS FOR COPPER CONDUCTORS · UNINSULATED · PIN · SILVER ALLOY BRAZED DIN 46234



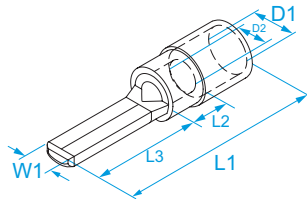
TERMINAL MATERIAL: tinned copper

SEAM: brazed silver alloy

OPERATING TEMPERATURE: from -50 °C to +150 °C

Code	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
01450	10	(8)	4,3	22	8	12	7	4,5	100/300
01550	16	(6)	5,5	25	10	13	8,5	5,8	100/300
01650	25	(4)	6,8	33,5	13,5	15	9,6	6,7	100/300
01750	35	(2)	8	40,5	16	24,5	11,8	8,4	100/300
01850	50	(1/0)	9,5	45	19	26	13,6	9,6	100/300
01950	70	(2/0)	11	55	24	31	15,8	11,4	50/100
02050	95	(3/0)	12,5	55	24	31	18,9	13,5	50/100

TERMINAL LUGS FOR COPPER CONDUCTORS · NYLON INSULATED · BLACK · PIN



TERMINAL MATERIAL: tinned copper

INSULATION MATERIAL: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING GRADE: UL 94 V0

OPERATING TEMPERATURE: 125 °C max

Code	Color	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	D2 (mm)	
00450	■ Black	10	(8)	4,3	35,5	8	12	8,2	4,5	100/100
00550	■ Black	16	(6)	5,5	38	10	13	9	5,8	100/100
00650	■ Black	25	(4)	6,8	47,5	13,5	15	11,5	6,7	100/100



INSULATED END-SLEEVES · SINGLE CABLE · 0.5÷2.5

ASSORTMENT TYPE: box



Code	Description	Cable type	Section (mm²)	Section from (AWG/MCM)
00421	Plastic box with insulated single cable end-sleeves	single	0.5 ÷ 2.5	(20 - 14)

Component	Description	Pcs / code
00601	Insul End Sleeves 0.5x8 White	50
00506	Insul End Sleeves 2.5x8 Blu	50
00602	Insul End Sleeves 0.75x8 Grey	100
00603	Insul End Sleeves 1x8 Red	100
00604	Insul End Sleeves 1.5x8 Black	100

INSULATED END-SLEEVES · SINGLE CABLE · 4÷16

ASSORTMENT TYPE: box



Code	Description	Cable type	Section (mm²)	Section from (AWG/MCM)
00422	Plastic box with insulated single cable end-sleeves	single	4 ÷ 16	(12 - 6)

Component	Description	Pcs / code
00508	Insul End Sleeves 4x10 Grey	50
00610	Insul End Sleeves 6x12 Yellow	20
00612	Insul End Sleeves 10x12 Red	20
00614	Insul End Sleeves 16x12 Blue	10

INSULATED END-SLEEVES · DOUBLE CABLE · 2x0.75÷2.5

ASSORTMENT TYPE: box



Code	Description	Cable type	Section (mm ²)	Section from (AWG/MCM)
00423	Plastic box with insulated double cable end-sleeves	double	0.75 ÷ 2.5	(18 - 14)

Component	Description	Pcs / code
00652	Twin End Sleeves 2x0.75-L8 Grey	50
00654	Twin End Sleeves 2x1-L8 Red	50
00656	Twin End Sleeves 2x1.5-L8 Black	50
00558	Twin End Sleeves 2x2.5-L10 Blue	50

INSULATED END-SLEEVES · DOUBLE CABLE · 2x4÷16

ASSORTMENT TYPE: box



Code	Description	Cable type	Section (mm ²)	Section from (AWG/MCM)
00424	Plastic box with insulated double cable end-sleeves	double	4 ÷ 16	(12 - 6)

Component	Description	Pcs / code
00560	Twin End Sleeves 2x4-L12 Grey	20
00661	Twin End Sleeves 2x6-L14 Yellow	10
00662	Twin End Sleeves 2x10-L14 Red	10
00663	Twin End Sleeves 2x16-L14 Blue	5

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 536 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80411	Assortment of insulated copper terminals + crimping tool 536	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
536	Crimping Tool x Ins.term.0.5-6	1
00108	Insul Fork Term. 1.5 F3	8
00119	Insul Ring Term. 1.5 F4	8
00120	Insul Fork Term. 1.5 F4	8
00150	Insul Round Pin 1.5	8
00220	Insul Fork Term. 2.5 F4	8
00225	Insul Ring Term. 2.5 F5	8
00250	Insul Round Pin 2.5	8
00325	Insul Ring Term. 6 F5	8
00331	Insul Ring Term. 6 F6	8
00350	Insul Round Pin 6	8

INSULATED END-SLEEVES 0.25÷2.5 + 540 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80415	Assortment of insulated end-sleeve terminals + crimping tool 540	0.25 ÷ 2.5	(22 - 14)

Component	Description	Pcs / code
540	Crimping tool x End-Sleeves 0.25-2.5	1
00500	Insul End Sleeves 0.25x8 Light Blue	25
00501	Insul End Sleeves 0.5x8 Orange	25
00502	Insul End Sleeves 0.75x8 White	25
00503	Insul End Sleeves 1x8 Yellow	25
00504	Insul End Sleeves 1.5x8 Red	25
005041	Insul End Sleeves 1.5x10 Red	25
00506	Insul End Sleeves 2.5x8 Blue	25
005061	Insul End Sleeves 2.5x12 Blue	25
005002	Insul End Sleeves 0.34x8 Turque	25
00507	Insul End Sleeves 2.5x18 Blue	25

INSULATED END-SLEEVES 0.5÷16 + 541 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80416	Assortment of insulated end-sleeve terminals + crimping tool 541	0.5 ÷ 16	(20 - 6)

Component	Description	Pcs / code
541	Crimping Tool x End-Sleeves 0.75-16	1
00501	Insul End Sleeves 0.5x8 Orange	25
00502	Insul End Sleeves 0.75x8 White	25
00503	Insul End Sleeves 1x8 Yellow	25
00504	Insul End Sleeves 1.5x8 Red	25
005041	Insul End Sleeves 1.5x10 Red	25
00506	Insul End Sleeves 2.5x8 Blu	25
00508	Insul End Sleeves 4x10 Grey	25
00510	Insul End Sleeves 6x12 Black	10
00512	Insul End Sleeves 10x12 Ivory	10
00514	Insul End Sleeves 16x12 Green	5

INSULATED QUICK-CONNECTORS 0.25÷6 + 536 CRIMPING TOOL

ASSORTMENT TYPE: with crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80412	Assortment of quick-connect terminals + crimping tool 536	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
536	Crimping Tool x Ins.term.0.5-6	1
00190	Insul Female 1.5-6.3x0.8	5
00180	Quick Connect Term Insul Male 1.5-6.30x0.8	5
00130	Insul cylinder plug male 1,5 D4	5
00140	Insul cylinder plug female 1,5 D4	5
00290	Insul Female 2.5-6.3x0.8	5
00280	Quick Connect Term Insul Male 2.5-6.3x0.8	5
00298	Quick Connect Term Insul Male + Female 2,5 6,3x0,8	5
00391	Insul Female 6 6.3x0.8	5
00380	Quick Connect Term Insul Male 6 6.3x0.8	5
00360	Insul Butt Connector 6	5

UNINSULATED COPPER TERMINAL LUGS 0.25÷6 + 535 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80403	Assortment in plastic case of uninsulated copper terminals + crimping tool 535	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
535	Crimping Tool x Uninsulated Terminals 0,5-10	1
B2025	Ny Cable Ties 200x2.5 Nat	50
01107	Ring Term 1,5F3	15
01108	Fork Term 1,5F3	15
01119	Ring Term 1,5F4	15
01120	Fork Term 1,5F4	15
01125	Ring Term 1,5F5	15
01150	Pin Term 1,5	15
01219	Ring Term 2,5F4	15
01220	Fork Term 2,5F4	15
01225	Ring Term 2,5F5	15
01226	Fork Term 2,5F5	15
01250	Pin Term 2,5	15
01325	Ring Term 6F5	15
01326	Fork Term 6F5	15
01331	Ring Term 6F6	15
01160	Butt Connector 1,5	15
01260	Butt Connector 2,5	15
01360	Butt Connector 6	15

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 534 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80401	Assortment in plastic case of insulated copper terminals + crimping tool 534	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
534	Crimping Tool x Ins.term. 0.5-6	1
B2025	Ny Cable Ties 200x2.5 Nat	50
00107	Insul Ring Term. 1.5F3	15
00108	Insul Ring Term. 1.5F3	15
00119	Insul Ring Term. 1.5F4	15
00120	Insul Fork Term. 1.5F4	15
00125	Insul Ring Term. 1.5F5	15
00150	Insul Round Pin 1.5	15
00219	Insul Ring Term. 2.5F4	15
00220	Insul Fork Term. 2.5F4	15
00225	Insul Ring Term. 2.5F5	15
00226	Insul Fork Term. 2.5F5	15
00250	Insul Round Pin 2.5	15
00325	Insul Ring Term. 6F5	15
00326	Insul Fork Term. 6F5	15
00331	Insul Ring Term. 6F6	15
00160	Insul Butt Connector Red 1.5	15
00260	Insul Butt Connector Blue 2.5	15
00360	Insul Butt Connector 6	15

INSULATED END-SLEEVES 0.14÷4 + 537 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80405	Assortment in plastic case of insulated end-sleeve terminals + crimping tool 537	0.14 ÷ 4	(26 - 12)

Component	Description	Pcs / code
537	Crimping Tool x End-Sleeves 0.5-4	1
B2025	Ny Cable Ties 200x2.5 Nat	50
005001	Insul End Sleeves 0.14x8 Grey	50
00500	Insul End Sleeves 0.25x8 Light Blue	50
005002	Insul End Sleeves 0.34x8 Turque	50
00502	Insul End Sleeves 0.75x8 White	50
00503	Insul End Sleeves 1x8 Yellow	50
00504	Insul End Sleeves 1.5x8 Red	50
005041	Insul End Sleeves 1.5x10 Red	50
00506	Insul End Sleeves 2.5x8 Blue	50
00508	Insul End Sleeves 4x10 Grey	50
00501	Insul End Sleeves 0.5x8 Orange	50
00505	Insul End Sleeves 1.5x18 Red	25
005061	Insul End Sleeves 2.5x12 Blue	25
00507	Insul End Sleeves 2.5x18 Blue	25
005081	Insul End Sleeves 4x12 Grey	25
00509	Insul End Sleeves 4x18 Grey	25

INSULATED QUICK-CONNECTORS 0.5÷2.5 + SLEEVES + 531 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80404	Assortment in plastic case of uninsulated quick-connect terminals + sleeves + crimping tool 531	0.5 ÷ 2.5	(20 - 14)

Component	Description	Pcs / code
531	Crimping Tool x barrel brass terminals 0.5-6	1
B2025	Ny Cable Ties 200x2.5 Nat	50
91103	Insul Ring Brass F3 0.5-1	10
91104	Insul Ring Brass F4 0.5-1	10
91105	Insul Ring Brass F5 0.5-1	10
91203	Insul Ring Brass F3 1-2.5	10
91204	Insul Ring Brass F4 1-2.5	10
91205	Insul Ring Brass F5 1-2.5	10
01190	Female 1,5 6,3x0,8	10
01180	Male 1 6,3x0,8	10
01290	Female 2,5 6,3x0,8	10
01280	Male 2,5 6,3x0,8	10
01198	Piggy-Backs 1 6,3x0,8	10
01298	Piggy-Backs 2,5 6,3x0,8	10
01295	Female Flag 2 6,3x0,8	10
01017	Sleevs For Femal 6,3 Pvc	10
01005	Male 45°	10
01014	Double Male	10
01016	Sleevs For Male	10

INSULATED QUICK-CONNECTORS 0.25÷6 + 534 CRIMPING TOOL

ASSORTMENT TYPE: in double case, with automatic crimping tool



Code	Description	Section (mm ²)	Section from (AWG/MCM)
80402	Assortment in plastic case of insulated quick-connect terminals + crimping tool 534	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
534	Crimping Tool x Ins.term.0.5-6	1
B2025	Ny Cable Ties 200x2.5 Nat	50
00390	Insul Femal 1,5-2,8x0,8	10
00190	Insul Femal 1,5-6,3x0,8	10
00180	Insul Male 1,5-6,3x0,8	10
00198	Insul Piggy-Backs 1,5-6,3x0,8	10
00130	Insul Cylinder Plug Male 1,5-4	10
00140	Insul Cylinder Plug Female 1,5-4	10
00290	Insul Femal 2,5-6,3x0,8	10
00280	Insul Male 2,5-6,3x0,8	10
00230	Insul Bullet 2,5-d5	10
00240	Insul Socket 2,5-d5	10
00298	Insul Piggy-Backs 2,5-6,3x0,8	10
00391	Insul Femal 6 6,3x0,8	10
00380	Insul Male 6 6,3x0,8	10
00260	Insul Butt Connector 2.5	10
00270	End Connector 1.5-2.5	10
00370	End Connector 2.5-6	10
00360	Insul Butt Connector 6	10

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 534 CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case



Code	Description	Section (mm ²)	Section from (AWG/MCM)
00411	Assortment in plastic case with removable boxes of insulated copper terminals + crimping tool 534	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
534	Crimping Tool x Ins.term. 0.5-6	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1.5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2.5	100
00160	Insul Butt Connector Red 1.5	100
00260	Insul Butt Connector Blue 2.5	100
00190	Insul Femal 1,5-6,3x0,8	100
00290	Insul Femal 2,5-6,3x0,8	100
00180	Insul Male 1,5-6,3x0,8	100
00280	Insul Male 2,5-6,3x0,8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5-6.3x0.8	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 541 CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm ²)	Section from (AWG/MCM)
00412	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 541	0.75 ÷ 16	(18 - 6)

Component	Description	Pcs / code
541	Tool x End-Sleeves 0.75-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blu	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blu	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 5382 CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case



Code	Description	Section (mm ²)	Section from (AWG/MCM)
00413	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 5382	0.75 ÷ 16	(18 - 6)

Component	Pcs / code
5382	Crimping Tool x End-Sleeves 0.008-16 1
00502	Insul End Sleeves 0.75x8 White 500
00503	Insul End Sleeves 1x8 Yellow 500
00504	Insul End Sleeves 1.5x8 Red 500
00506	Insul End Sleeves 2.5x8 Blue 250
00508	Insul End Sleeves 4x10 Grey 200
00552	Twin End Sleeves 2x0.75-L8 White 200
00554	Twin End Sleeves 2x1-L8 Yellow 200
00556	Twin End Sleeves 2x1.5-L8 Red 200
00510	Insul End Sleeves 6x12 Black 100
00558	Twin End Sleeves 2x2.5-L9 Blue 100
00560	Twin End Sleeves 2x4-L12 Grey 100
00512	Insul End Sleeves 10x12 Ivory 50
00514	Insul End Sleeves 16x12 50
00561	Twin End Sleeves 2x6-L14 Black 50
00405	Plastic case with removable boxes 1

INSULATED END-SLEEVES 0.75÷16 + 53816 CRIMPING TOOL
ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case


Code	Description	Section (mm ²)	Section from (AWG/MCM)
00417	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 53816	0.75 ÷ 16	(18 - 6)

Component	Description	Pcs / code
53816	Crimping Tool x End sleeves 0.08-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED COPPER TERMINAL LUGS 0.25÷6 + 53P02H CRIMPING TOOL

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case



Code	Description	Section (mm ²)	Section from (AWG/MCM)
00441	Assortment in plastic case with removable boxes of insulated copper terminals + crimping tool 53P02H	0.25 ÷ 6	(22 - 10)

Component	Description	Pcs / code
53P02H	Crimping Tool CRIMPAR for insulated terminals 0.25-6	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1,5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2,5	100
00160	Insul Butt Connector 1.5	100
00260	Insul Butt Connector 2.5	100
00190	Insul Female 1.5 6.3x0.8	100
00290	Insul Female 2.5 6.3x0.8	100
00180	Quick Connect Term Insul Male 1.5 6.30x0.8	100
00280	Quick Connect Term Insul Male 2.5 6.3x0.8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5 6.3x0.8	50
00405	Plastic case with removable boxes	1

INSULATED END-SLEEVES 0.75÷16 + 53P02E CRIMPING TOOL + 53M2E1 DIE

ASSORTMENT TYPE: with automatic crimping tool, with removable boxes, in plastic case

Code	Description	Section (mm ²)	Section from (AWG/MCM)
00442	Assortment in plastic case with removable boxes of single and double cable insulated end-sleeve terminals + crimping tool 53P02E + DIE 53M2E1	0.75 ÷ 16	(18 - 6)

Component	Description	Pcs / code
53P02E	Crimping Tool CRIMPAR for insulated terminals 0,5-4	1
53M2E1	Die for end-sleeve terminals 6-16	1
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	200
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50
00405	Plastic case with removable boxes	1

INSULATED COPPER TERMINAL LUGS 0.25÷6 + INSULATED END-SLEEVES 0.75÷16 + 5305 CRIMPING TOOL

ASSORTMENT TYPE: in box, with automatic crimping tool



Code	Description
00600	Assortment of insulated copper terminals lugs + insulated end-sleeves + crimping tool and 5 dies, in case with boxes for small components

Component	Description	Pcs / code
1818	Case with boxes for small components	1
5305	Crimping tool and 5 interchangeable dies	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1.5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2.5	100
00260	Insul Butt Connector Blue 2.5	100
00190	Insul Femal 1,5 6,3x0,8	100
00290	Insul Femal 2,5 6,3x0,8	100
00180	Insul Male 1,5 6,3x0,8	100
00280	Insul Male 2,5 6,3x0,8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5 6.3x0.8	50
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blue	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50

INSULATED COPPER TERMINAL LUGS 0.25÷6 + INSULATED END-SLEEVES 0.75÷16 + 53KPBF CRIMPING TOOL

ASSORTMENT TYPE: in box, with automatic crimping tool



Code	Description
00700	Assortment of insulated copper terminals lugs + insulated end-sleeves + crimping tool and 5 dies, in case with boxes for small components

Component	Description	Pcs / code
1818	Case with boxes for small components	1
53KPBF	Crimping tool and 5 interchangeable dies	1
00119	Insul Ring Term. 1.5F4	100
00120	Insul Fork Term. 1.5F4	100
00125	Insul Ring Term. 1.5F5	100
00150	Insul Round Pin 1,5	100
00219	Insul Ring Term. 2.5F4	100
00220	Insul Fork Term. 2.5F4	100
00225	Insul Ring Term. 2.5F5	100
00250	Insul Round Pin 2,5	100
00160	Insul Butt Connector 1.5	100
00260	Insul Butt Connector 2.5	100
00190	Insul Female 1.5 6.3x0.8	100
00290	Insul Female 2.5 6.3x0.8	100
00180	Quick Connect Term Insul Male 1.5 6.30x0.8	100
00280	Quick Connect Term Insul Male 2.5 6.3x0.8	100
00325	Insul Ring Term. 6F5	50
00331	Insul Ring Term. 6F6	50
00360	Insul Butt Connector 6	50
00291	Tot Insul Femal 2.5 6.3x0.8	50
00502	Insul End Sleeves 0.75x8 White	500
00503	Insul End Sleeves 1x8 Yellow	500
00504	Insul End Sleeves 1.5x8 Red	500
00506	Insul End Sleeves 2.5x8 Blue	250
00508	Insul End Sleeves 4x10 Grey	200
00552	Twin End Sleeves 2x0.75-L8 White	200
00554	Twin End Sleeves 2x1-L8 Yellow	200
00556	Twin End Sleeves 2x1.5-L8 Red	200
00510	Insul End Sleeves 6x12 Black	100
00558	Twin End Sleeves 2x2.5-L9 Blu	100
00560	Twin End Sleeves 2x4-L12 Grey	100
00512	Insul End Sleeves 10x12 Ivory	50
00514	Insul End Sleeves 16x12	50
00561	Twin End Sleeves 2x6-L14 Black	50

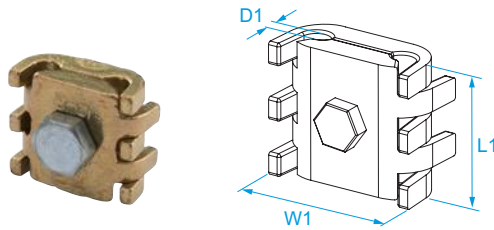




SCREW CONNECTIONS

BRASS CLAMPING LUGS & EARTH LUGS	pag. 104
BRASS NICKEL PLATES TERMINAL LUGS	pag. 107
CLAMPING LUGS	pag. 109

UNIVERSAL 1-BOLT COMB LUGS



MATERIAL: die-cast brass

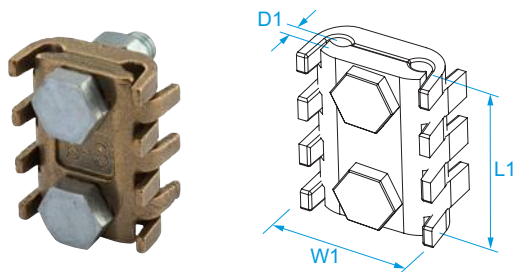
SECTION: main and derived conductor of the same section

OPERATING TEMPERATURE: da -50 °C a +150 °C

APPLICATIONS: grounding systems, to connect copper wire ropes or copper conductors suitable for earthing

Code	Section (mm ²)	Cable diameter (mm)	D1 (mm)	W1 (mm)	L1 (mm)	Screw	
5251	6 ÷ 16	3 ÷ 5	5	25,5	20,5	M6	100/100
5252	25 ÷ 50	6 ÷ 8	9	29,5	25	M8	50/50
5253	50 ÷ 70	9 ÷ 12	12	37,5	30	M8	50/50

UNIVERSAL 2-BOLT COMB LUGS



MATERIAL: die-cast brass

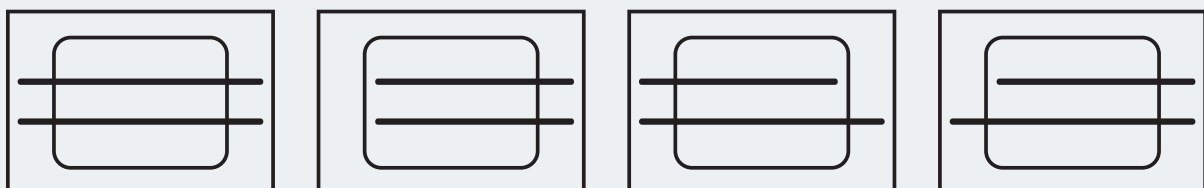
SECTION: main and derived conductor of the same or different section

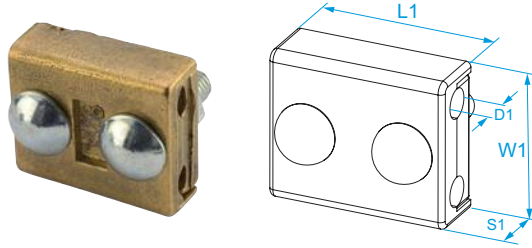
OPERATING TEMPERATURE: da -50 °C a +150 °C

APPLICATIONS: grounding systems, to connect copper wire ropes or copper conductors suitable for earthing

Code	Section (mm ²)	Cable diameter (mm)	D1 (mm)	W1 (mm)	L1 (mm)	Screw	
5261	6 ÷ 16	3 ÷ 5	5	25	32	M6	100/100
5262	25 ÷ 50	6 ÷ 8	9	32	38	M6	100/100
5263	50 ÷ 70	9 ÷ 12	12	42	45	M8	50/50
5264	70 ÷ 95	12 ÷ 14	14	53	53	M10	25/25
5265	95 ÷ 150	14 ÷ 16	16	54,5	57,5	M10	20/20
5266	150 ÷ 300	16 ÷ 22	22	66	67	M12	10/10

CONNECTION TYPES



TWO-WIRE DIAMOND LUGS

MATERIAL: die-cast brass

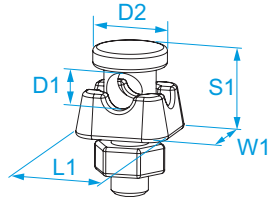
OPERATING TEMPERATURE: da -50 °C a +150 °C

Code	Section (mm ²)	D1 (mm)	W1 (mm)	L1 (mm)	S1 (mm)	Screw	
5211	6	3	19	23	8	M5	100/100
5212	10	4	20	27	9,5	M5	100/100
5213	16	5	24	29,5	10,75	M6	100/100
5214	25	6	27	34,5	11,5	M6	50/50
5215	35	7	30	36	11,5	M6	50/50
5216	40	8	33,5	39,5	14	M8	25/25
5217	50	9	35,5	43	15	M8	25/25
5218	63	10	37,5	47,5	16	M10	25/25
5219	70	11	43,5	53	17,5	M10	25/25
5220	80	12	46,5	56	18	M10	25/25
5221	95	13	46,5	56	18	M10	20/20
5222	120	14	50	58,5	18,5	M10	10/20
5223	135	15	50	58,5	18,5	M10	10/10

1-BOLT EARTHING LUGS

MATERIAL: die-cast brass

OPERATING TEMPERATURE: da -50 °C a +150 °C

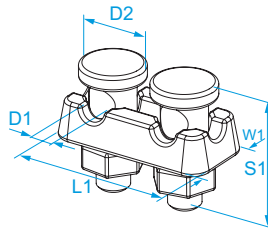


Code	Section (mm ²)	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	S1 (mm)	Screw	
22	50	10	21	26	26,5	41	M10	100/100

2-BOLT EARTHING LUGS

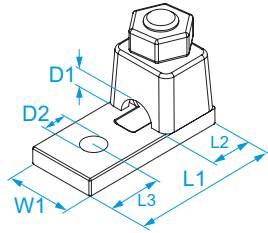
MATERIAL: die-cast brass

OPERATING TEMPERATURE: da -50 °C a +150 °C



Code	Section (mm ²)	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	S1 (mm)	Screw	
23	50	10	21	26	51,5	41	M10	25/50

1-BOLT TERMINALS

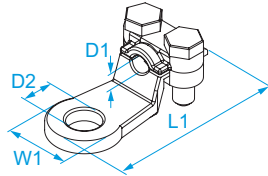


MATERIAL: nickel-plated die-cast brass

OPERATING TEMPERATURE: da -50 °C a +150 °C

Code	Section (mm ²)	Cable diameter (mm)	For screw Ø screw (mm)	For screw Stud size	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Screw	
5160	4 ÷ 10	2 ÷ 4	5	#10	4,2	5,25	12	26,5	12	7	M5	100/100
5161	10 ÷ 25	4 ÷ 6	5	#10	6,2	6	14	36	11	8	M6	100/100
5162	25 ÷ 35	6 ÷ 8,5	5	#10	8,5	6	17	38	12,5	8	M7	100/100
5163	35 ÷ 50	8,5 ÷ 11	7	9/32"	11,5	8,3	23	50	18	12	M10	50/50
5164	70 ÷ 95	11 ÷ 14	10	3/8"	15	10,5	26,5	55	20,5	14,5	M12	25/25
5165	95 ÷ 120	14 ÷ 17	10	3/8"	27,5	11,5	32	64	23	16	M14	25/25
5166	150 ÷ 185	17 ÷ 20,5	14	9/16"	21	14	37,5	79	26	18	M16	20/20
5167	185 ÷ 240	20,5 ÷ 24	16	5/8"	24	17	40	94	31,5	23	M16	10/20

2-BOLT TERMINALS



MATERIAL: nickel-plated die-cast brass

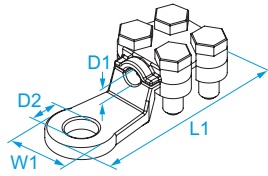
OPERATING TEMPERATURE: da -50 °C a +150 °C

Code	Section (mm ²)	For screw Ø screw (mm)	For screw Stud size	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	Screw	
5140	10	5	#10	4	6	15	32,5	M5	100/200
5141	16	8	5/16"	5,1	8,5	17	37	M5	200/200
5142	25	8	5/16"	6,3	6,3	18,75	42	M5	150/150
5143	35	10	3/8"	7,5	7,5	21,5	49	M5	100/100

4-BOLT TERMINALS

MATERIAL: nickel-plated die-cast brass

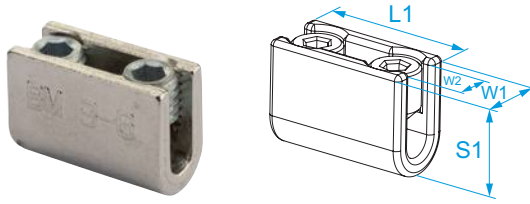
OPERATING TEMPERATURE: da -50 °C a +150 °C



Code	Section (mm ²)	For screw Ø screw (mm)	For screw Stud size	D1 (mm)	D2 (mm)	W1 (mm)	L1 (mm)	Screw	
5144	50	10	3/8"	9,5	10,5	23	56,5	M6	100/200
5145	75	12	1/2"	11	13,25	26	61	M6	50/50
5146	100	12	1/2"	13	14,3	29	65	M6	50/50
5147	120	14	9/16"	14	14,8	32	71	M6	50/50
5148	170	14	9/16"	16	16	33	81	M8	25/25
5149	200	16	5/8"	17	17	35	85	M8	25/25
5150	250	16	5/8"	18	17	38	87,5	M8	25/25
5151	300	18	13/16"	21	19,8	45	118	M10	15/15
5152	400 ÷ 500	22	7/8"	25,5	22	53	132	M10	10/10
5153	700	22	7/8"	34	22	60	150	M10	1/1

“U” HEAD CONNECTORS

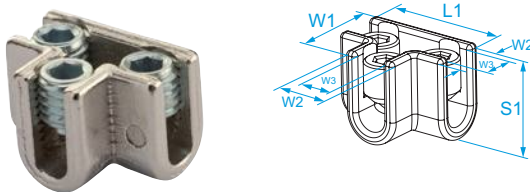
MATERIAL: nickel-plated die-cast brass



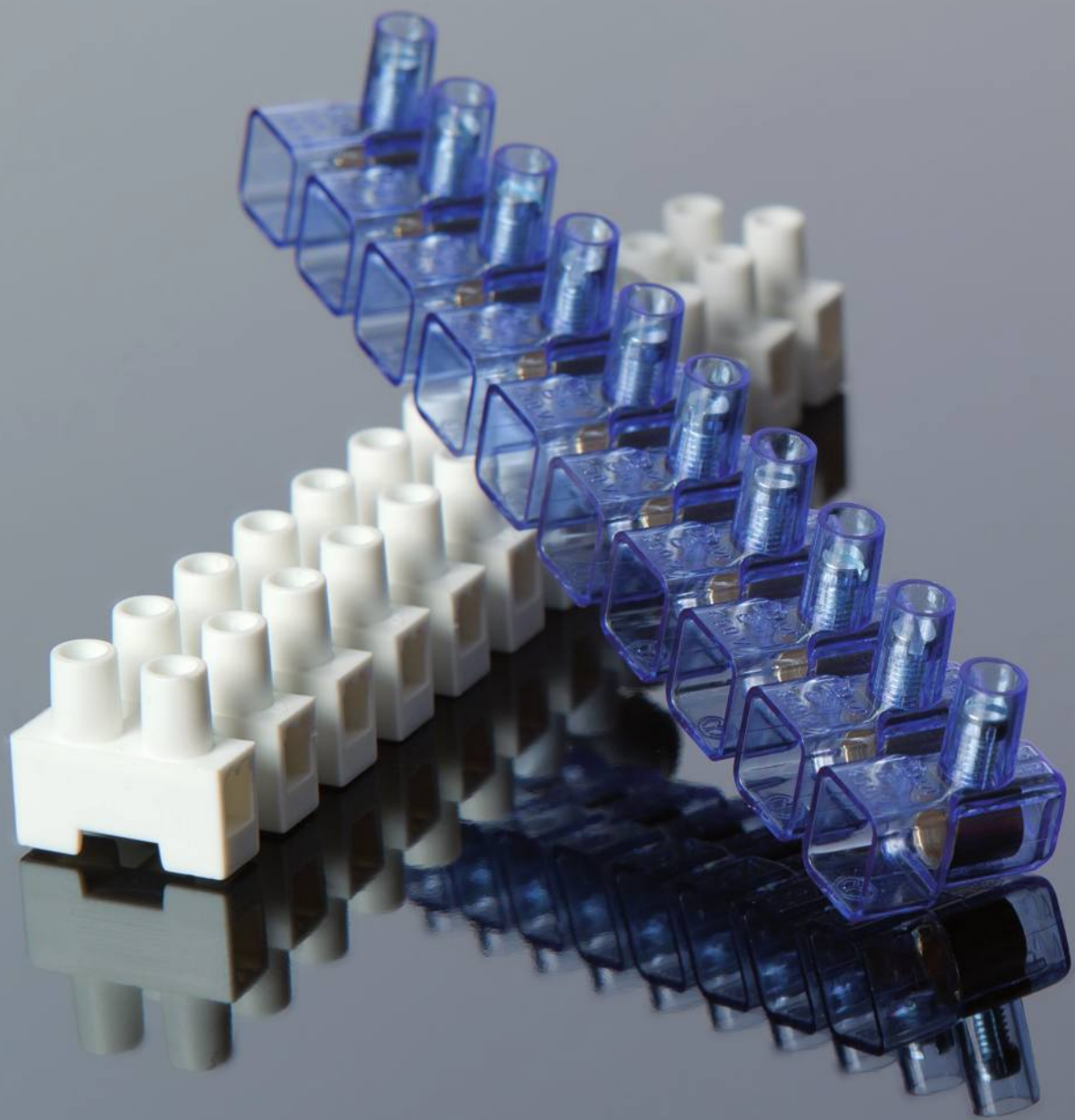
Code	Section (mm ²)	Cable diameter (mm)	W1 (mm)	W2 (mm)	L1 (mm)	S1 (mm)	Screw	
2300	4 ÷ 16	2 ÷ 4,5	10,25	5	23	15,25	M7	100/100
2301	10 ÷ 25	3 ÷ 6	14	6,5	30	20	M10	100/100
2302	25 ÷ 35	7 ÷ 8	17	8,25	42	22,5	M12	50/50
2303	35 ÷ 70	9 ÷ 10	19,5	10,3	51	26	M14	50/50
2304	70 ÷ 95	11 ÷ 13	27	13,5	71	30	M20	10/10
2305	95 ÷ 185	14 ÷ 16	31	16	73	38	M24	10/10

“T” HEAD CONNECTORS

MATERIAL: nickel-plated die-cast brass



Code	Section (mm ²)	Cable diameter (mm)	W1 (mm)	W2 (mm)	W3 (mm)	L1 (mm)	S1 (mm)	Screw	
2350	4 ÷ 16	2 ÷ 4,5	16,75	10,75	5	23	15,5	M7	100/100
2351	10 ÷ 25	3 ÷ 6	22	13,75	7	30	20	M10	100/100
2352	25 ÷ 35	7 ÷ 8	31,5	17	8,15	42,5	22,5	M12	50/50
2353	35 ÷ 70	9 ÷ 10	36	19,5	10	52	25,5	M14	25/50
2354	70 ÷ 95	11 ÷ 13	50	27	13	71	30	M20	10/10
2355	90 ÷ 185	14 ÷ 16	53	32	16,25	72	38	M24	10/10

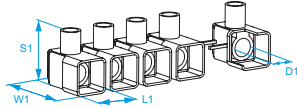




TERMINAL BLOCKS

ONE-WAY TERMINAL BLOCKS	pag. 112
CONNECTORS	pag. 119
MULTIWAY TERMINAL BLOCKS	pag. 129

ONE-WAY TERMINAL BLOCKS - END CONNECTORS - BARS



INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

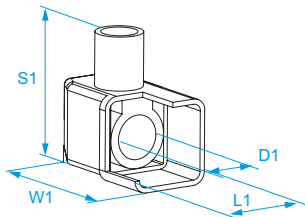
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Connection capability Section (mm ²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	Ways	
991	1.5	1.5	2	2	450	18	M3	3,1	7,5	15	14,5	10	10/500
		1 0.75	2 ÷ 3 2 ÷ 4	2 ÷ 3 2 ÷ 4									
992	2.5	2.5	2	2	450	24	M3.5	4,1	9	17,5	18,2	10	10/600
		1.5 1	2 ÷ 3 2 ÷ 4	2 ÷ 3 2 ÷ 4									
9924	4	4	2	2	450	32	M4	4,5	10,3	21	20	10	10/400
		2.5 1.5	2 ÷ 3 2 ÷ 4	2 ÷ 3 2 ÷ 4									
993	6	6	2	2	450	41	M4	6	11,8	22,5	23	10	10/300
		4 2.5	2 ÷ 3 2 ÷ 4	2 2 ÷ 4									
994	10	10	2	2	450	57	M6	7,9	14,7	26	26	10	10/200
		6 4	2 ÷ 3 2 ÷ 4	2 2 ÷ 4									
995	16	16	2	2	450	76	M8	10,5	18,8	31,8	32,2	10	10/100
		10 6	2 ÷ 3 2 ÷ 4	2 2 ÷ 3									



ONE-WAY TERMINAL BLOCKS - END CONNECTORS



INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

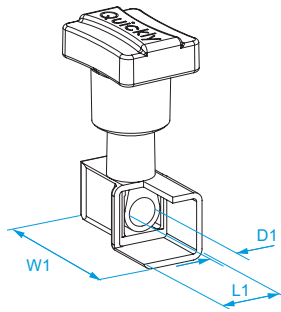
MAX OPERATING TEMPERATURE: 85 °C

PROTECTION GRADE: IP00

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

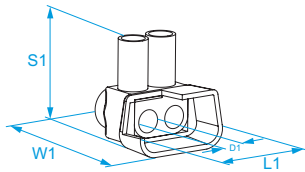
Code	Conductor section (mm ²)	Connection capability Section (mm ²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	Ways	
9960	25	25	2	2	450	101	M10	12	22,5	36,3	41,9	25/25	
		16	2 ÷ 3	2 ÷ 3									
		10	2 ÷ 4	2 ÷ 4									
9961	35	35	2	2	450	125	M10	13,9	26,1	43,5	49,4	25/25	
		25	2 ÷ 3	2									
		16	2 ÷ 4	2 ÷ 3									



ONE-WAY TERMINAL BLOCKS - END CONNECTORS - WITH MANUAL TIGHTENING


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: brass
CAPTIVE SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 85 °C
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Connection capability Section (mm ²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	
9924Q	4	4 2.5 1.5	2 2 ÷ 3 2 ÷ 4	2 2 ÷ 3 2 ÷ 4	450	32	M4	4,5	10,3	21	20/20
993Q	6	6 4 2,5	2 2 ÷ 3 2 ÷ 4	2 2 2 ÷ 4	450	41	M4	6	11,8	22,5	20/20
994Q	10	10 6 4	2 2 ÷ 3 2 ÷ 4	2 2 2 ÷ 4	450	57	M6	7,9	14,7	26	20/20

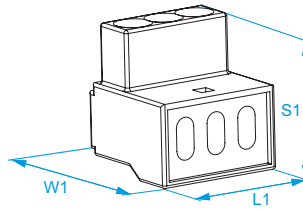

ONE-WAY TERMINAL BLOCKS - END CONNECTORS - 2 INPUTS


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0
CONDUCTIVE BODY: brass
CAPTIVE SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 85 °C
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Connection capability Section (mm ²)	Connection capability N. rigid conductors	Connection capability N. flexible conductors	Rated voltage (V)	Test current (A)	Screw	D1 (mm)	L1 (mm)	W1 (mm)	S1 (mm)	
9416	2 x 16	16 10 6	2	- 2 2	450	76	M5	5,5	20,5	22,6	24,5	30/30
9425	2 x 25	25 16 10	2	- 2 2	450	101	M6	7	25	26,2	25,4	20/20
9435	2 x 35	35 25 16	2	- 2 2	450	125	M8	9	32	31,2	33,4	10/10



ONE-WAY TERMINAL BLOCKS - 3 INPUTS



Unipolar terminal block with multiple inputs that can be fixed on DIN 46277/1 and DIN 46277/3 rail

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

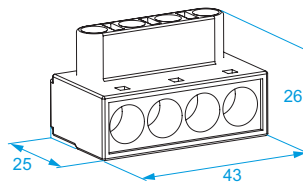
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Wire protection	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	L1 (mm)	W1 (mm)	S1 (mm)	
996	1 ÷ 6	stainless steel	450	16	3	10	M4	22	21	24	50/50
9984	16 ÷ 35		750	125	3	18	M8	47	36,4	36	25/25



HALOGEN FREE

ONE-WAY TERMINAL BLOCKS - 4 INPUTS



INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

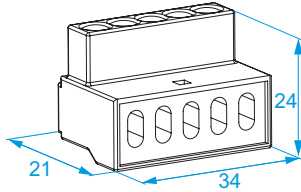
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	
998	6 ÷ 16	750	40	4	10	M5	25/25



HALOGEN FREE

ONE-WAY TERMINAL BLOCKS - 5 INPUTS


Unipolar terminal block with multiple inputs that can be fixed on DIN 46277/1 and DIN 46277/3 rail

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

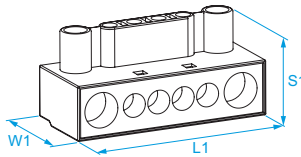
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Wire protection	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	
997	1 ÷ 6	stainless steel	450	16	5	10	M4	50/50


ONE-WAY TERMINAL BLOCKS - 6 INPUTS


INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

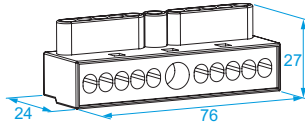
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	L1 (mm)	W1 (mm)	S1 (mm)	
9981	(2,5 ÷ 6) x 4 (6 ÷ 16) x 2	750	40	6	11	M4	48	24	26	25/25
9983	(6 ÷ 16) x 4 (16 ÷ 35) x 2	750	125	6	16 18	M5, M8	77	35	35	25/25



ONE-WAY TERMINAL BLOCKS - 11 INPUTS



INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: brass

SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

PROTECTION GRADE: IP20

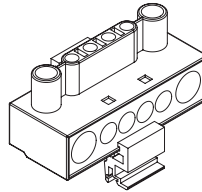
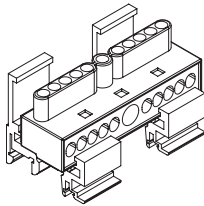
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Conductor section (mm ²)	Rated voltage (V)	Test current (A)	Inputs	Stripping length (mm)	Screw	
9982	(2,5 ÷ 6) x 10 (6 ÷ 16) x 1	750	40	11	11	M4	25/25



HALOGEN FREE

ACCESSORIES FOR ONE-WAY TERMINAL BLOCKS WITH MULTIPLE INPUTS - DIN BAR BASE



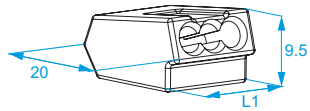
Base for fixing one-way terminals with multiple inputs on DIN 46277/1 and DIN 46277/3 rail

INSULATING HOUSING: polypropylene (PP) natural color

MAX OPERATING TEMPERATURE: 85 °C

ASSEMBLY: The terminal blocks can be mounted on the rail by means of a slight pressure and can be released by inserting a screwdriver into the head opening.

Code	Terminal block type	Bases per terminal block	
99601	996-997	1	50/50
99811	998-9981	1	50/50
99821	9982	2	50/50
99831	9983	2	50/50
99841	9984	1	50/50

ONE-WAY TERMINAL BLOCKS - QUICK-CONNECT


One-way push-wire terminal block for rigid conductors

INSULATING HOUSING: polyamide (PA 6.6)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid

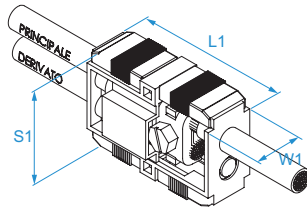
MAX OPERATING TEMPERATURE: 85 °C

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-2: 2004

Code	Conductor section (mm ²)	Rated voltage (V)	Inputs	Stripping length (mm)	L1 (mm)	
803	0,75 ÷ 2,5	450	3	10 ÷ 13	14	100/100
805	0,75 ÷ 2,5	450	5	10 ÷ 13	22	100/100



INDIRECT CLAMPING TERMINAL BLOCK · TWIN BLOCK



One-way terminal block with multiple inputs and indirect clamping for electrical cables, useful for channel or flying shunts or junctions.

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

CONDUCTIVE BODY: nickel-plated die-cast brass

SAFETY CLIP IN: black polyamide (PA 6.6)

SCREW IN: galvanized steel

MAX OPERATING TEMPERATURE: 85 °C

CLAMPING TYPE: indirect

TEST VOLTAGE: 2500 V

PROTECTION GRADE: IP20

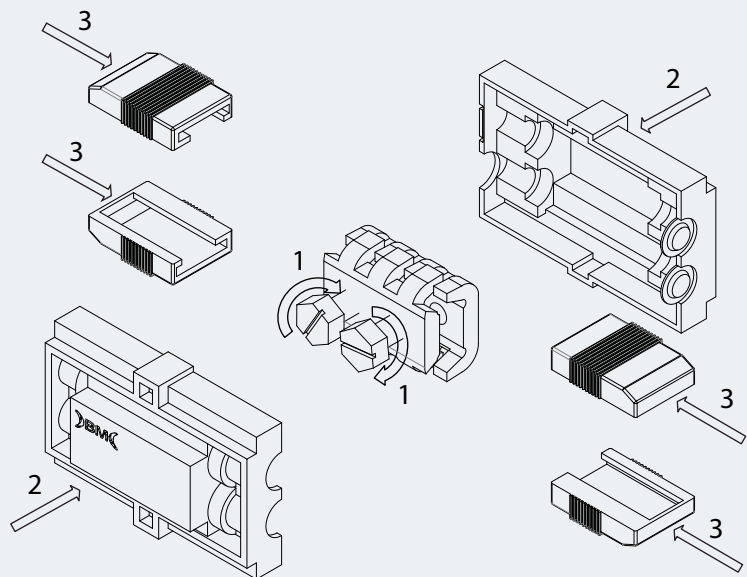
ACCORDING TO STD.: EN 60947-7-1, EN 60998-1: 2004, EN 60998-2-1: 2004, EN 60999

Code	Conductor section (mm ²)	Connectable flexible conductors Primary (mm ²)	Connectable flexible conductors Derivative (mm ²)	Rated voltage (V)	L1 (mm)	W1 (mm)	S1 (mm)	
95261	10-25	25	25	450	64	27	43	1/10
		25	16					
		25	10					
		16	16					
		16	10					
10	10							
95262	25-50	50	50	450	71	34	49	1/10
		50	35					
		50	25					
		35	35					
		35	25					
25	25							
95263	50-95	95	95	450	77	41	61	1/10
		95	70					
		95	50					
		70	70					
		70	50					
50	50							
95264	70-120	120	120	450	90	50	72	1/5
		120	95					
		120	70					
		95	95					
		95	70					
		70	70					



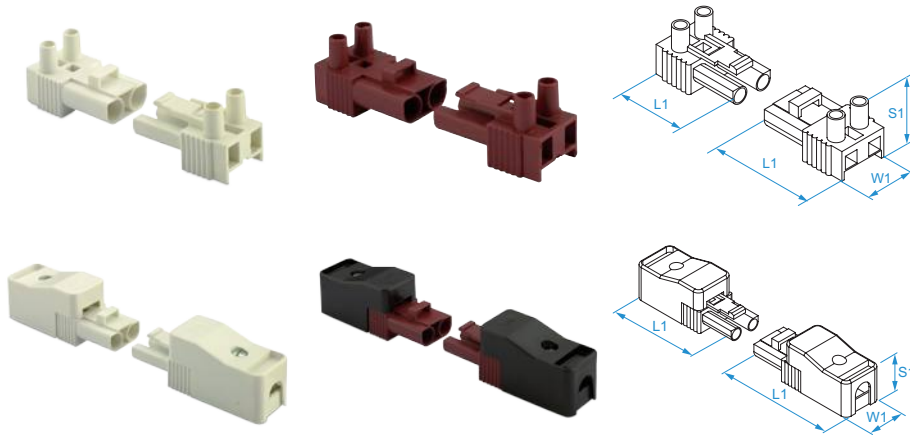
ASSEMBLY INSTRUCTIONS

Remove the black clips, open the blue shell, make electrical connections, close the shell and insert the safety clips



CONNECTION TYPES



POLARIZED PLUG TERMINALS · 2-WAY CONNECTORS · M902 SERIES


BROWN PLUG AND SOCKET: polyamide (PA 6.6) and 25% fiberglass

WHITE PLUG AND SOCKET: polyamide (PA 6.6)

WHITE AND BLACK SHELL AND CABLE CLAMP: polyamide (PA 6.6)

CONDUCTIVE BODY IN: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel

TEST CURRENT: 16 A

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002 +A2:2006 (par. 30.2.3), EN 60695-2-11

RATED IMPULSE VOLTAGE: 4 kV

CONDUCTOR TYPE: rigid and flexible

OPERATING CYCLES: 5000

RATED VOLTAGE: 400 V

POLLUTION DEGREE: 2

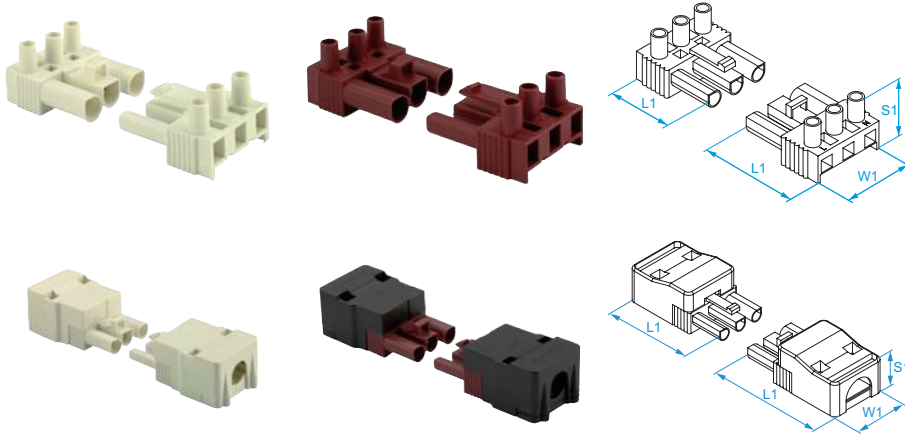
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 61984: 2009

Code	Description	Section (mm ²)	Operating temperature	Terminal Block Material	Terminal Block Color	Shells Material	Shells Color	Shells Cable clamp	W1 (mm)	L1 (mm)	S1 (mm)		
B9021	Male plug	2,5	from -10 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	White		-	19	32	20	100/100	
B9022	Female receptacle	2,5	from -10 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	White		-	19	32	20	100/100	
B9023	Male plug with shell	2,5	from -10 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	White	PA 6.6 <input type="checkbox"/>	White	5,7 - 7	19	60	21	50/50
B9024	Female receptacle with shell	2,5	from -10 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	White	PA 6.6 <input type="checkbox"/>	White	5,7 - 7	19	60	21	50/50
M9021	Male plug high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	<input checked="" type="checkbox"/>	Brown		-	19	32	20	100/100	
M9022	Female receptacle high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	<input checked="" type="checkbox"/>	Brown		-	19	32	20	100/100	
M9023	Male plug high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	<input checked="" type="checkbox"/>	Brown	PA 6.6 <input checked="" type="checkbox"/>	Black	5,7 - 7	19	60	21	50/50
M9024	Female receptacle high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	<input checked="" type="checkbox"/>	Brown	PA 6.6 <input checked="" type="checkbox"/>	Black	5,7 - 7	19	60	21	50/50



POLARIZED PLUG TERMINALS · 3-WAY CONNECTORS · M903 SERIES

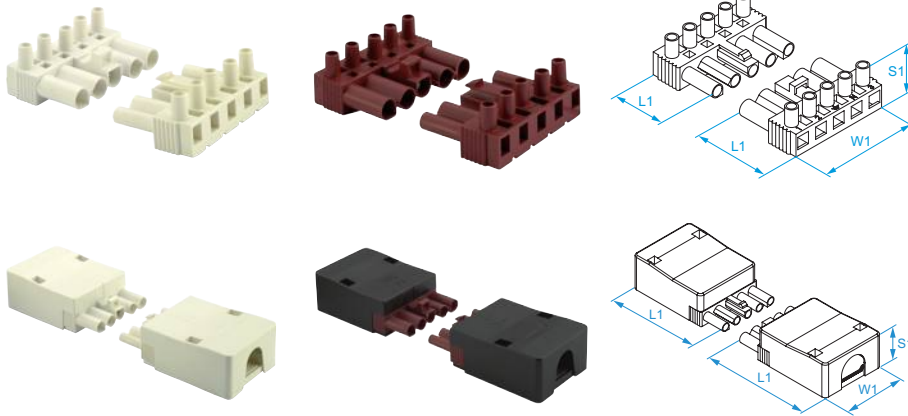


BROWN PLUG AND SOCKET: polyamide (PA 6.6) and 25% fiberglass
WHITE PLUG AND SOCKET: polyamide (PA 6.6)
WHITE AND BLACK SHELL AND CABLE CLAMP: polyamide (PA 6.6)
CONDUCTIVE BODY IN: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel
TEST CURRENT: 16 A
INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002 +A2:2006 (par. 30.2.3), EN 60695-2-11
RATED IMPULSE VOLTAGE: 4 kV
CONDUCTOR TYPE: rigid and flexible
OPERATING CYCLES: 5000
RATED VOLTAGE: 400 V
POLLUTION DEGREE: 2
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 61984: 2009

TERMINAL BLOCKS

Code	Description	Section (mm ²)	Operating temperature	Terminal Block Material	Terminal Block Color	Shells Material	Shells Color	Shells Cable clamp	W1 (mm)	L1 (mm)	S1 (mm)	
B9031	Male plug	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	29	32	20	50/50
B9032	Female receptacle	2,5	from -10 °C to 105 °C max	PA 6.6	White			-	29	32	20	50/50
B9033	Male plug with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	4,5 - 10,5	32	57	23	50/50
B9034	Female receptacle with shell	2,5	from -10 °C to 105 °C max	PA 6.6	White	PA 6.6	White	4,5 - 10,5	32	57	23	50/50
M9031	Male plug high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	29	32	20	50/50
M9032	Female receptacle high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass	Brown			-	29	32	20	50/50
M9033	Male plug high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	4,5 - 10,5	32	57	23	50/50
M9034	Female receptacle high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass	Brown	PA 6.6	Black	4,5 - 10,5	32	57	23	50/50



POLARIZED PLUG TERMINALS · 5-WAY CONNECTORS · M905 SERIES


BROWN PLUG AND SOCKET: polyamide (PA 6.6) and 25% fiberglass

WHITE PLUG AND SOCKET: polyamide (PA 6.6)

WHITE AND BLACK SHELL AND CABLE CLAMP: polyamide (PA 6.6)

CONDUCTIVE BODY IN: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel

TEST CURRENT: 16 A

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002 +A2:2006 (par. 30.2.3), EN 60695-2-11

RATED IMPULSE VOLTAGE: 4 kV

CONDUCTOR TYPE: rigid and flexible

OPERATING CYCLES: 5000

RATED VOLTAGE: 400 V

POLLUTION DEGREE: 2

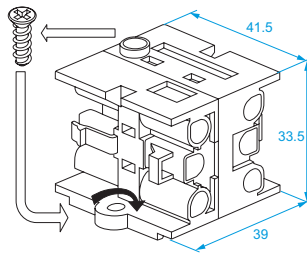
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 61984: 2009

Code	Description	Section (mm ²)	Operating temperature	Terminal Block Material	Terminal Block Color	Shells Material	Shells Color	Shells Cable clamp	W1 (mm)	L1 (mm)	S1 (mm)		
B9051	Male plug	2,5	from -10 °C to 105 °C max	PA 6.6		White		-	48,5	32	20	50/50	
B9052	Female receptacle	2,5	from -10 °C to 105 °C max	PA 6.6		White		-	48,5	32	20	50/50	
B9053	Male plug with shell	2,5	from -10 °C to 105 °C max	PA 6.6		White	PA 6.6	White	1x(9-14)- 2x(9-10,5)	48,5	76,5	26	50/50
B9054	Female receptacle with shell	2,5	from -10 °C to 105 °C max	PA 6.6		White	PA 6.6	White	1x(9-14)- 2x(9-10,5)	48,5	76,5	26	50/50
M9051	Male plug high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass		Brown		-	48,5	32	20	50/50	
M9052	Female receptacle high temperature	2,5	from -10 °C to 150 °C max	PA 6.6 + fiberglass		Brown		-	48,5	32	20	50/50	
M9053	Male plug high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass		Brown	PA 6.6	Black	1x(9-14)- 2x(9-10,5)	48,5	76,5	26	50/50
M9054	Female receptacle high temperature with shell	2,5	from -10 °C to 105 °C max	PA 6.6 + fiberglass		Brown	PA 6.6	Black	1x(9-14)- 2x(9-10,5)	48,5	76,5	26	50/50



ACCESSORIES FOR M903 SERIES - 3-WAY SHUNT BLOCK



CONDUCTIVE BODY IN: nickel-plated brass

SHUNT: 3 female sockets + 1 male plug

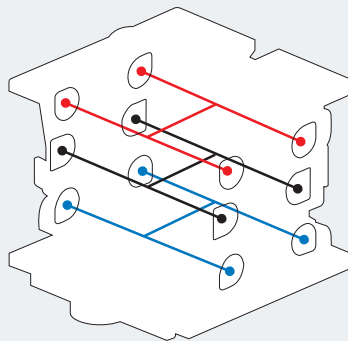
INSULATING HOUSING IN: polycarbonate (PC), black

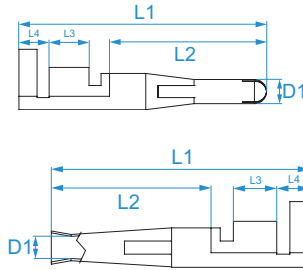
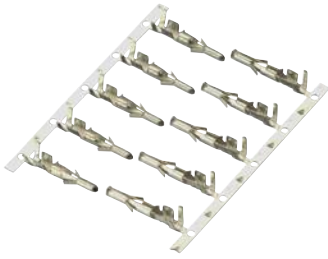
INSULATION SELF-EXTINGUISHING: UL 94 V0

Code	Operating temperature	
M9039	90 °C max	10/10



M9039 ASSEMBLY INSTRUCTIONS



AUTOMATIC CRIMPING CONNECTORS - TERMINALS - M620 SERIES - REEL

TEST CURRENT: 15 A

TERMINAL MATERIAL: tinned brass

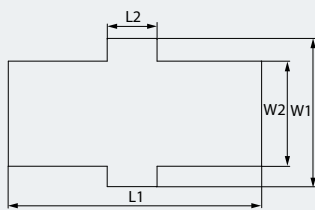
RATED VOLTAGE: 300 AC/DC V

MAX CONTACT RESISTANCE: 10 (20 after environmental testing) mΩ

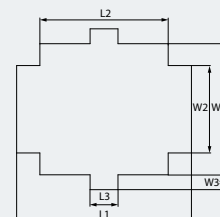
Code	Type	Section (mm ²)	Section (AWG)	Ø insulant (mm)	Operating temperature	Tools	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	
02230	male	0.5÷2.0	(20-14)	1.9 - 3.4	from -25 °C to 105 °C max	53P000 +53M2C2	20,5	12,8	3,2	2,8	2	4000/4000
02240	female	0.5÷2.0	(20-14)	1.9 - 3.4	from -25 °C to 105 °C max	53P000 +53M2C2	20,5	12,8	3,2	2,8	1,9	4000/4000


ACCESSORIES FOR AUTOMATIC CRIMPING CONNECTORS - EXTRACTION TOOL


Code	Description	
1107	Tool for extracting terminals from housing	1/1

PANEL ASSEMBLY INSTRUCTIONS


SHAPE I

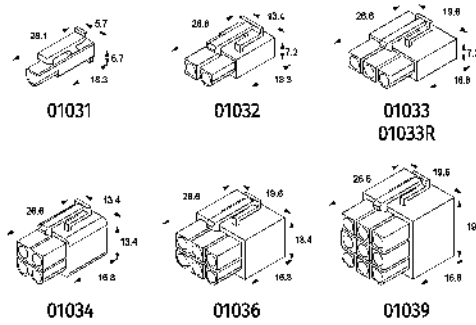


SHAPE II

Template for code	# ways	Shape	Panel hole size tolerance ± 0.13 mm					
			L1	L2	L3	W1	W2	W3
01042	2	I	18,8	3,7		11	7,8	-
01043	3	I	25	3,7		11	7,8	-
01044	4	II	18,8	13,8	4	14,1	9,4	1,6
01046	6	II	25	20	4	14,1	9,4	1,6
01049	9	II	25	20	4	20,3	9,4	1,6

Applicable on boards 0.8 - 2 mm thick

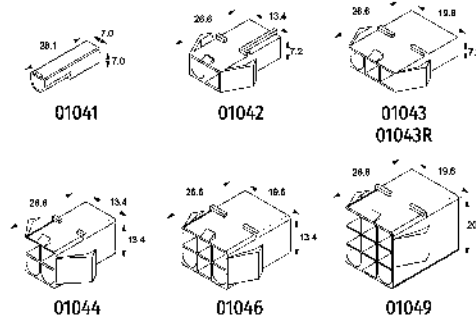
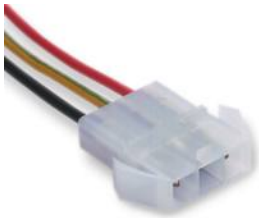
ACCESSORIES FOR CRIMPING CONNECTORS · M620 SERIES · MALE HOUSING



INSULATING HOUSING IN: polyamide (PA 6.6) natural color
DIELECTRIC STRENGTH: 1500 AC-1 minute V
INSULATION SELF-EXTINGUISHING: UL 94 V2

Code	Type	Operating temperature	Shells Material	Shells Color	Ways	Rated voltage (V)	Current (A)		
01031	male	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	1	300	15	500/500
01032	male	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	2	300	15	500/500
01033	male	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	3	300	14	500/500
01033R	male	from -25 °C to 105 °C max	PA 6.6	<input checked="" type="checkbox"/>	Red	3	300	14	500/500
01034	male	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	4	300	13	500/500
01036	male	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	6	300	12	300/300
01039	male	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	9	300	9	200/200

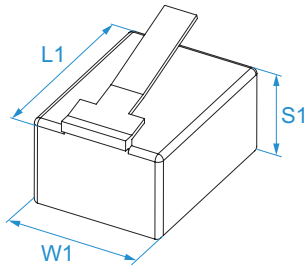
ACCESSORIES FOR CRIMPING CONNECTORS · M620 SERIES · FEMALE HOUSING



INSULATING HOUSING IN: polyamide (PA 6.6) natural color
DIELECTRIC STRENGTH: 1500 AC-1 minute V
INSULATION SELF-EXTINGUISHING: UL 94 V2

Code	Type	Operating temperature	Shells Material	Shells Color	Ways	Rated voltage (V)	Current (A)		
01041	female	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	1	300	15	500/500
01042	female	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	2	300	15	500/500
01043	female	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	3	300	14	500/500
01043R	female	from -25 °C to 105 °C max	PA 6.6	<input checked="" type="checkbox"/>	Red	3	300	14	500/500
01044	female	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	4	300	13	300/300
01046	female	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	6	300	12	300/300
01049	female	from -25 °C to 105 °C max	PA 6.6	<input type="checkbox"/>	Natural	9	300	9	200/200

RJ PHONE PLUGS



CABLE TYPE: phone cables

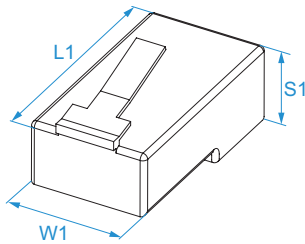
CONDUCTOR SECTION: (26-24) AWG

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V2

PIN MATERIAL: phosphor bronze with 50 micro inch gilding

Code	Description	Positions - Contacts	Tools	W1 (mm)	L1 (mm)	S1 (mm)	
01064	RJ22	4P - 4C	549	6,5	12,5	7,5	100/100
01065	RJ11/RJ14	6P - 4C	549	6,5	12,5	9,5	100/100
01066	RJ12	6P - 6C	549	6,5	12,5	9,5	100/100

RJ 45 LAN PLUGS



CABLE TYPE: 5e category (TIA/EIA-568-B)

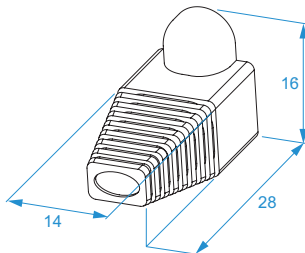
CONDUCTOR SECTION: (26-24) AWG

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V2

PIN MATERIAL: phosphor bronze with 50 micro inch gilding

Code	Description	Positions - Contacts	Tools	W1 (mm)	L1 (mm)	S1 (mm)	
01068	RJ45	8P - 8C	549, 53P5YA	8	21	11,5	100/100
01069	fully shielded RJ45	8P - 8C	549, 53P5YA	8,2	21,2	11,7	100/100

ACCESSORIES FOR RJ 45 - PLUG BOOTS



MATERIAL: polycarbonate (PC) UL 94 V0

Code	Shells Color	
01060B	Blue	100/100
01060N	Black	100/100
01060R	Red	100/100
01060V	Green	100/100

RJ PLUG + PLUG BOOTS + 549 CRIMPING TOOL



Code	Description
00410	RJ plugs for phone and data networks, plug boots and crimping tool in plastic case

Component	Description	Pcs / code
549	Crimping tool for RJ connectors	1
01065	RJ phone plugs	100
01068	RJ45 lan plugs	400
01060B	Plug boots for RJ45, blu	50
00405	Plastic case	1

MULTIWAY TERMINAL BLOCKS

POLYPROPYLENE TERMINAL BLOCKS

+
85 °C MAX

STEATITE TERMINAL BLOCKS

+
300 °C MAX
for higher temperatures

- Nylon standard
- Nylon "CS" with wire protection

+
100 °C ±125 °C MAX

- Nylon "GF" with fiberglass for the highest temperatures
- Nylon "GF/CS" with fiberglass for the highest temperatures with wire protection

+
110 °C ±150 °C MAX

NYLON TERMINAL BLOCKS

Number of poles
1 to 12

More insulating
base types

Customizable
marking

FLAT	FAST CLAMP	RAISED	WITH GROUND CONNECTION

ACCESSORIES · WAY MARKING

Ways marking is printed on the insulation of the screws of the terminal blocks. Markings are printed in black on natural colour terminal blocks, in white on brown terminal blocks. For markings that are not available in the following tables, contact BM.

ACCORDING TO SDT: ↓ symbol complies to IEC 60417-5017 (Earth); ⊕ symbol complies to 60417-5019 (Protective Earth)

FOR M092 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4376	1	L											
4377		N											
4200	2	L	N										
4257	3	L	↓	N									
4162		↓	L	N									
4316		N	L	↓									
4153		↓	N	L									
4349	6	1	2	3	4	5	6						
4157	10	L	N	N	↓	L	N	↓	L	+	-		
4363	12	A	B	C	D	E	F	G	H	I	L	M	N

FOR M094 SERIES

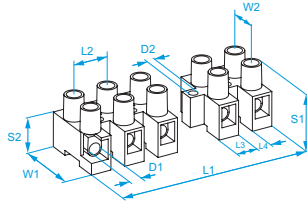
Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4091	2	N	L										
4090	3	N	↓	L									
4368		G	R	S									
4148		↓	N	L									
4154		L	↓	N									
4288		N	L	↓									
4182		L	N	↓									
4119		F	-	N									
4245		↓	N	P	F								
4327	4	1	2	↓	N								
4112		L	↓	N	-								
4329		L	-	N	↓								
4309	5	L	N	↓	-								
4308		L	N	↓	L	N							
4292		N	L	↓	-								
4304		1	2	3	N	↓							
4464		⊕	N	1	2	3	4						
4331	6	2	1	-	-	N	↓						
4305		1	2	3	4	5	↓						
4314	12	P	N	↓	P	N	↓	P	N	↓	P	N	↓
4152		P	N	↓	L	P	N	↓	L	P	N	↓	L

FOR M095 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4315	2	N	L										
4311	3	↓	1	2									
4313		L	↓	N									
4312	6	↓	1	2	3	4	5						
4330	12	P	N	↓	P	N	↓	P	N	↓	P	N	↓
4176		P	N	↓	L	P	N	↓	L	P	N	↓	L

FOR M093, M093H, N920 SERIES

Drawing	# ways	Way marking											
		1	2	3	4	5	6	7	8	9	10	11	12
4192	1	↓											
4118	2	L	N										
4350		⊕	-										
4365	3	⊕	N	L									
4364		L	⊕	N									
4143		L	↓	N									
4193		L	N	↓									
4117		↓	L	N									
4161		↓	N	L									
4088		N	↓	L									
4078		-	↓	-									
4178		N	↓	⚡									
4223		-	-	↓									
4370		L	L	N									
4371		N	L	L									
4372		L	⊕	N	L ₁								
4198		1	2	↓	N								
4367	L	N	+	-									
4150	↓	N	1	2									
4089	L	N	⚡	-									
4187	-	L	↓	N									
4317	↓	C	P	A									
4366	⊕	L	N	+	-								
4310	L	↓	N	X	⚡								
4177	N	↓	L	-	-								
4247	-	-	-	↓	-								
4352	N	↓	L	1+	2+								
4307	L	↓	N	L	⚡								
4306	↓	N	1	2	3	4							
4289	L	N	C	M	A	↓							
4369	6	5	4	3	L2	N1							
4186	L	N	↓	↓	1	2	3						
4373	7	6	5	4	3	L2	N1						
4263	L	N	1	2	3	4	5	6					
4353	1	2	3	4	5	6	7	8					
4374	8	7	6	5	4	3	L2	N1					
4185	L	N	↓	↓	1	2	3	4	5				
4375	9	8	7	6	5	4	3	L2	N1				
4278	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4328	12	P	N	↓	P	N	↓	P	N	↓	P	N	↓
4175		P	N	↓	L	P	N	↓	L	P	N	↓	L

MULTIWAY TERMINAL BLOCKS · POLYPROPYLENE · 12 WAYS · 920 SERIES


INSULATING HOUSING: polypropylene (PP) natural color

CONDUCTIVE BODY: brass

CAPTIVE SCREW IN: galvanized steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 85 °C

TEST VOLTAGE: 2500 V (9200, 9201, 9202, 9203), 3000 V (9204)

PROTECTION GRADE: IP20

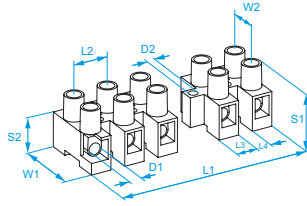
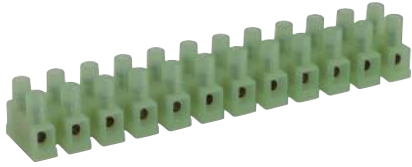
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004, EN 60335-1: 2002 + A2: 2006 (Par. 30.2.3), IEC/EN 60695-2-11

Code	Section (mm ²)	Rated voltage (V)	Test current (A)	Stripping length (mm)	Screw	Torque (Nm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
9200	2,5	400	24	5	M3	0,25	93,7	8	5,6	5,6	16	6	14,7	9	3	2,2	50/700
9201	4	400	32	7	M3	0,25	116,5	10	6	6	20,5	10	17,2	9,5	3,1	3,1	50/500
9202	6	400	41	7,5	M3.5	0,4	139,5	12	7,5	7,5	23,5	10	20,1	11,8	4,2	3,6	50/300
9203	16	450	76	8,5	M4	0,7	175,5	15	10,5	10,5	25,3	11	22,5	13	6	4,1	25/200
9204	25	500	101	11,5	M5	0,8	228	19,5	14	14	35,2	15	33,5	19	7,2	4,1	10/80



MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - N9201 SERIES

TERMINAL BLOCKS



Standard version of the N9201 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 125 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

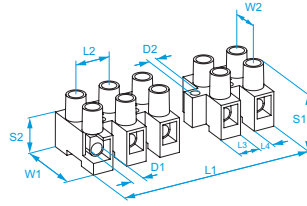
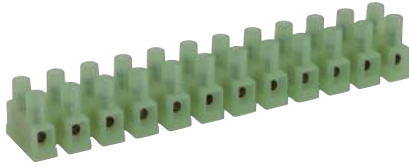
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	4	-	400	32	125	0,25
	-	18-14	600	15(**)	115	0,5

** 25 A rated for Factory Wiring Only

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
N9201/1	1	6	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/2	2	16	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/3	3	26	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/4	4	36	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/5	5	46	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/6	6	56	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	Contact BM
N9201/7	7	66	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/8	8	76	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/9	9	86	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/10	10	96	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201/11	11	106	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201	12	116,5	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	50/500

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - N9201 SERIES WITH WIRE PROTECTION


Wire protection version of the N9201 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 125 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	400	24	125	0,25
	-	18-14	600	15 (**)	115	0,5

** 25 A rated for Factory Wiring Only

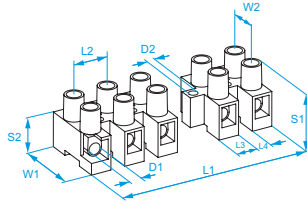
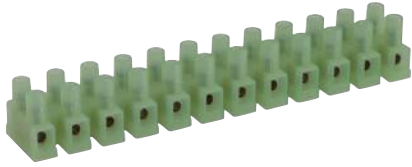
Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
N9201CS1	1	6	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS2	2	16	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS3	3	26	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS4	4	36	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS5	5	46	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS6	6	56	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	Contact BM
N9201CS7	7	66	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS8	8	76	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS9	9	86	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS10	10	96	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS11	11	106	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	
N9201CS	12	116,5	10	5,8	4,2	20,2	10	17,2	9,8	3,1	3,1	50/500

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - N9202 SERIES

TERMINAL BLOCKS



Standard version of the N9202 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 125 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

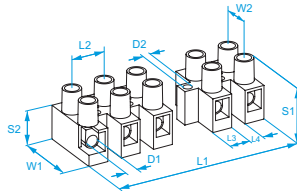
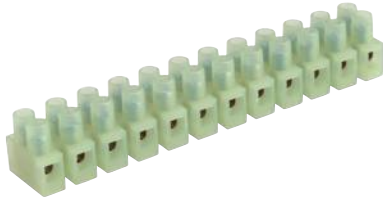
PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	6	10	400	41	125	0,4

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
N9202/1	1	7,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/2	2	19,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/3	3	31,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/4	4	43,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/5	5	55,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/6	6	67	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	Contact BM
N9202/7	7	79	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/8	8	91	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/9	9	103	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/10	10	115	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202/11	11	127	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	
N9202	12	139,5	12	7,4	4,5	23	10	20,1	11,9	4,2	3,6	10/50



MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M092 SERIES


Standard version of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	250/380	24	125	0,25
	-	20-16	600	10 (*)	105	0,5

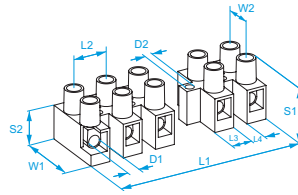
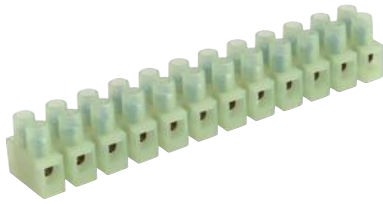
* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92/1	1	<input type="checkbox"/> Natural	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92/2	2	<input type="checkbox"/> Natural	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/3	3	<input type="checkbox"/> Natural	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/4	4	<input type="checkbox"/> Natural	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/5	5	<input type="checkbox"/> Natural	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/6	6	<input type="checkbox"/> Natural	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/7	7	<input type="checkbox"/> Natural	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/8	8	<input type="checkbox"/> Natural	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/9	9	<input type="checkbox"/> Natural	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/10	10	<input type="checkbox"/> Natural	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92/11	11	<input type="checkbox"/> Natural	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
M092	12	<input type="checkbox"/> Natural	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M092 SERIES WITH WIRE PROTECTION



Wire protection version of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

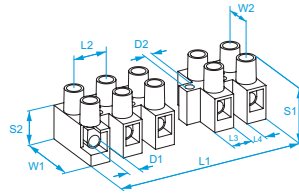
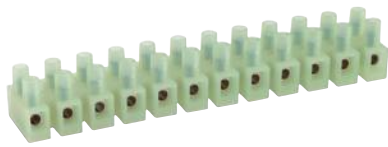
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	250/380	24	125	0,25
	-	20-16	600	10 (*)	105	0,5

* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92CS1	1	<input type="checkbox"/> Natural	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS2	2	<input type="checkbox"/> Natural	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS3	3	<input type="checkbox"/> Natural	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS4	4	<input type="checkbox"/> Natural	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS5	5	<input type="checkbox"/> Natural	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS6	6	<input type="checkbox"/> Natural	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92CS7	7	<input type="checkbox"/> Natural	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS8	8	<input type="checkbox"/> Natural	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS9	9	<input type="checkbox"/> Natural	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS10	10	<input type="checkbox"/> Natural	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92CS11	11	<input type="checkbox"/> Natural	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
M92CS	12	<input type="checkbox"/> Natural	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093 SERIES


Standard version of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	4	-	400	32	125	0,25
	-	18-12	600	20 (*)	105	0,5

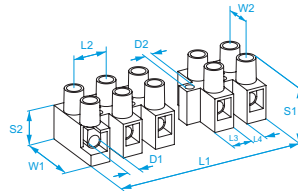
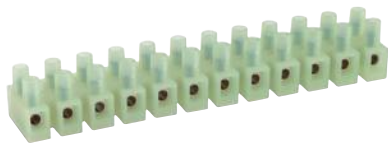
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93/1	1	<input type="checkbox"/> Natural	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93/2	2	<input type="checkbox"/> Natural	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/3	3	<input type="checkbox"/> Natural	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/4	4	<input type="checkbox"/> Natural	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/5	5	<input type="checkbox"/> Natural	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/6	6	<input type="checkbox"/> Natural	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/7	7	<input type="checkbox"/> Natural	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/8	8	<input type="checkbox"/> Natural	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/9	9	<input type="checkbox"/> Natural	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/10	10	<input type="checkbox"/> Natural	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93/11	11	<input type="checkbox"/> Natural	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
M093	12	<input type="checkbox"/> Natural	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/700

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093 SERIES WITH WIRE PROTECTION



Wire protection version of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

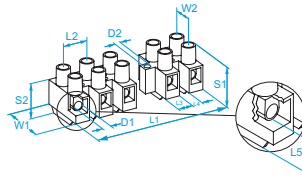
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	400	24	125	0,25
	-	18-12	600	20 (*)	105	0,5

* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93CS1	1	<input type="checkbox"/> Natural	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS2	2	<input type="checkbox"/> Natural	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS3	3	<input type="checkbox"/> Natural	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS4	4	<input type="checkbox"/> Natural	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS5	5	<input type="checkbox"/> Natural	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS6	6	<input type="checkbox"/> Natural	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93CS7	7	<input type="checkbox"/> Natural	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS8	8	<input type="checkbox"/> Natural	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS9	9	<input type="checkbox"/> Natural	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS10	10	<input type="checkbox"/> Natural	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93CS11	11	<input type="checkbox"/> Natural	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
M93CS	12	<input type="checkbox"/> Natural	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/700

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093H SERIES


Standard version of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	4	-	400	32	125	0,25
	-	18-12	600	20 (*)	105	0,5

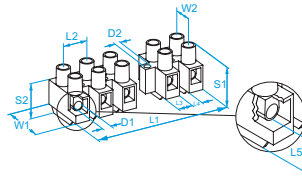
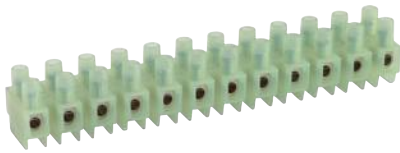
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
M93H1	1	<input type="checkbox"/> Natural	6,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
M93H2	2	<input type="checkbox"/> Natural	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H3	3	<input type="checkbox"/> Natural	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H4	4	<input type="checkbox"/> Natural	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H5	5	<input type="checkbox"/> Natural	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H6	6	<input type="checkbox"/> Natural	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H7	7	<input type="checkbox"/> Natural	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H8	8	<input type="checkbox"/> Natural	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H9	9	<input type="checkbox"/> Natural	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H10	10	<input type="checkbox"/> Natural	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93H11	11	<input type="checkbox"/> Natural	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M093H	12	<input type="checkbox"/> Natural	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/500

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093H SERIES WITH WIRE PROTECTION



Wire protection version of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

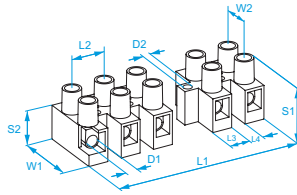
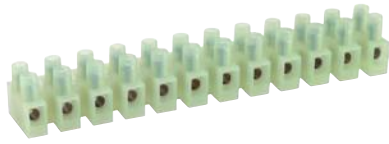
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	400	24	125	0,25
	-	18-12	600	20 (*)	105	0,5

* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93HCS1	1	<input type="checkbox"/> Natural	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
93HCS2	2	<input type="checkbox"/> Natural	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS3	3	<input type="checkbox"/> Natural	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS4	4	<input type="checkbox"/> Natural	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS5	5	<input type="checkbox"/> Natural	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS6	6	<input type="checkbox"/> Natural	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS7	7	<input type="checkbox"/> Natural	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS8	8	<input type="checkbox"/> Natural	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS9	9	<input type="checkbox"/> Natural	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS10	10	<input type="checkbox"/> Natural	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HCS11	11	<input type="checkbox"/> Natural	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93HCS	12	<input type="checkbox"/> Natural	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M094 SERIES


Standard version of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	6	-	400	41	125	0,7
	-	18-10	600	30 (*)	105	0,9

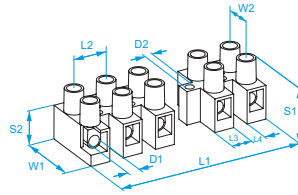
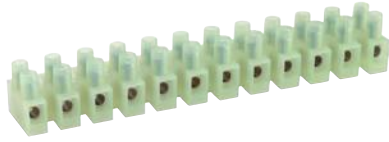
* 40 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
M94/1	1	<input type="checkbox"/> Natural	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
M94/2	2	<input type="checkbox"/> Natural	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/3	3	<input type="checkbox"/> Natural	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/4	4	<input type="checkbox"/> Natural	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/5	5	<input type="checkbox"/> Natural	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/6	6	<input type="checkbox"/> Natural	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/7	7	<input type="checkbox"/> Natural	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/8	8	<input type="checkbox"/> Natural	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/9	9	<input type="checkbox"/> Natural	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/10	10	<input type="checkbox"/> Natural	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94/11	11	<input type="checkbox"/> Natural	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M094	12	<input type="checkbox"/> Natural	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/300

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M094 SERIES WITH WIRE PROTECTION



Wire protection version of the M094 series
INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3,5)
WIRE PROTECTION: stainless steel
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 7.5 mm
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

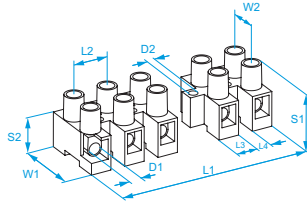
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	4	-	400	23	125	0,9
	-	18-10	600	30 (*)	105	0,9

* 40 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94CS1	1	<input type="checkbox"/> Natural	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS2	2	<input type="checkbox"/> Natural	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS3	3	<input type="checkbox"/> Natural	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS4	4	<input type="checkbox"/> Natural	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS5	5	<input type="checkbox"/> Natural	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS6	6	<input type="checkbox"/> Natural	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94CS7	7	<input type="checkbox"/> Natural	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS8	8	<input type="checkbox"/> Natural	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS9	9	<input type="checkbox"/> Natural	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS10	10	<input type="checkbox"/> Natural	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94CS11	11	<input type="checkbox"/> Natural	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94CS	12	<input type="checkbox"/> Natural	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M095 SERIES


Standard version of the M095 series

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M4)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 9 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

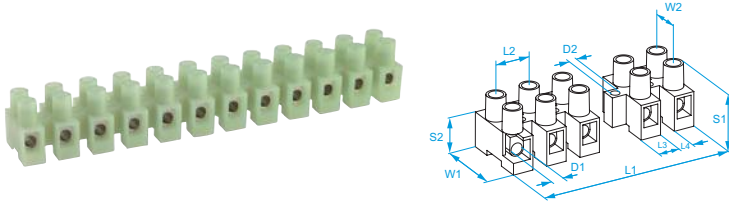
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	10	-	400	57	125	0,7
	-	18-8	600	50	105	1,2

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95/1	1	<input type="checkbox"/> Natural	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95/2	2	<input type="checkbox"/> Natural	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/3	3	<input type="checkbox"/> Natural	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/4	4	<input type="checkbox"/> Natural	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/5	5	<input type="checkbox"/> Natural	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/6	6	<input type="checkbox"/> Natural	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/7	7	<input type="checkbox"/> Natural	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/8	8	<input type="checkbox"/> Natural	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/9	9	<input type="checkbox"/> Natural	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/10	10	<input type="checkbox"/> Natural	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95/11	11	<input type="checkbox"/> Natural	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
M095	12	<input type="checkbox"/> Natural	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/200

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M095 SERIES WITH WIRE PROTECTION



INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M4)
WIRE PROTECTION: stainless steel
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 9 mm
PROTECTION GRADE: IP20
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

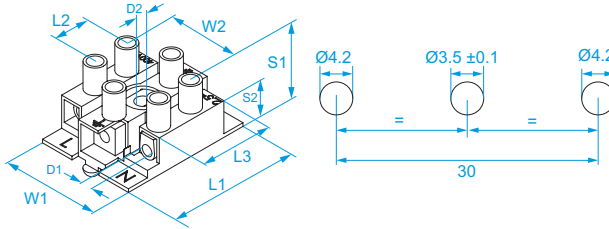
TERMINAL BLOCKS

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	6	-	400	41	125	0,7
	-	18-8	600	50	105	1,2

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95CS1	1	<input type="checkbox"/> Natural	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS2	2	<input type="checkbox"/> Natural	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS3	3	<input type="checkbox"/> Natural	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS4	4	<input type="checkbox"/> Natural	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS5	5	<input type="checkbox"/> Natural	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS6	6	<input type="checkbox"/> Natural	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95CS7	7	<input type="checkbox"/> Natural	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS8	8	<input type="checkbox"/> Natural	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS9	9	<input type="checkbox"/> Natural	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS10	10	<input type="checkbox"/> Natural	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95CS11	11	<input type="checkbox"/> Natural	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
M95CS	12	<input type="checkbox"/> Natural	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/10

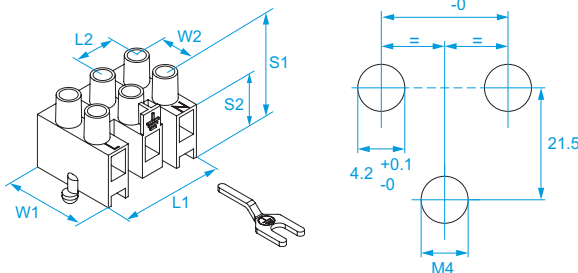
file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - 3-WAY - FOR DIRECT GROUNDING


INSULATING HOUSING: polyamide (PA 6.6) natural color
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
MARKING: L ↓ N on the ways
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 100 °C
MAX SHORT-TIME TEMPERATURE: 160 °C
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 11 mm
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004
ASSEMBLY: Grounding screw hole for metal sheets with thickness up to 1 mm: $\varnothing 3,5 \pm 0,1$. Drilling template as shown in the figure.
GROUNDING SCREW: M4x10

Code	Section (mm ²)	Ways	Rated voltage (V)	Test current (A)	Torque (Nm)	L1 (mm)	L2 (mm)	L3 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
M096	2,5	3	400	24	0,25	36	10	24	27	20,5	17,5	10	3,1	4,2	1000/1000

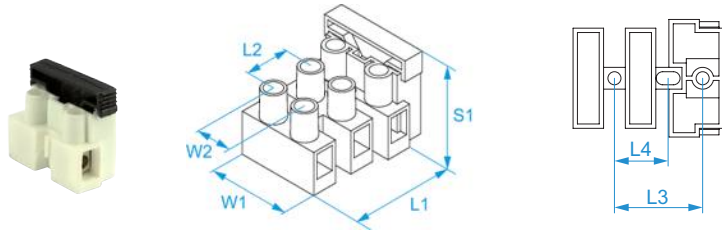

MULTIWAY TERMINAL BLOCKS - NYLON - 3-WAY - FOR FIXING ON SHEET


INSULATING HOUSING: polyamide (PA 6.6) white color
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
GROUNDING FORK FOR M4 SCREW (T VERSION): brass
MARKING: L ↓ N on the ways
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 110 °C
MAX SHORT-TIME TEMPERATURE: 160 °C
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 7 mm
ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004
ASSEMBLY: Drilling template as shown in the figure. Fasten on metal sheets with $0,6 \div 1$ mm thickness by pressing the pins.

Code	Description	Section (mm ²)	Rated voltage (V)	Test current (A)	Torque (Nm)	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	
963		2,5	450	24	0,25	27	10	24,5	10	18,5	10,5	1000/1000
963CS	with stainless steel wire protection	2,5	450	24	0,25	27	10	24,5	10	18,5	10,5	1000/1000



MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 5 WAYS - WITH FUSE HOLDER - M097 SERIES



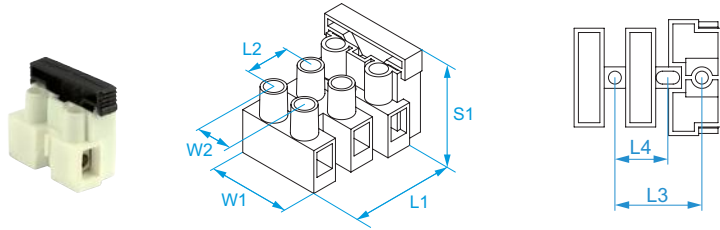
Standard version of the M097 series
INSULATING HOUSING: polyamide (PA 6.6) white color
CONDUCTIVE BODY: nickel-plated brass
CAPTIVE SCREW IN: galvanized steel (M3)
FUSE: 5x20 fuse compliant to IEC 127 (not included)
INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C
CONDUCTOR TYPE: rigid and flexible
MAX OPERATING TEMPERATURE: 100 °C
MAX SHORT-TIME TEMPERATURE: 160 °C
TEST VOLTAGE: 2500 V
STRIPPING LENGTH: 7 mm
ACCORDING TO STD.: EN 60257, EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	450	24	100	0,25

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	
971	1	12,85	10	20	10	21	10	22,7	100/100
972	2	22,05	10	20	10	21	10	22,7	100/100
973	3	32,05	10	20	10	21	10	22,7	100/100
974	4	42,05	10	20	10	21	10	22,7	100/100
975	5	52,05	10	20	10	21	10	22,7	100/100



MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 5 WAYS - WITH FUSE HOLDER - M097 SERIES WITH WIRE PROTECTION


Wire protection version of the M097 series

INSULATING HOUSING: polyamide (PA 6.6) white color

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

FUSE: 5x20 fuse compliant to IEC 127 (not included)

INSULATION SELF-EXTINGUISHING: EN 60695-2-10 a 850 °C

CONDUCTOR TYPE: rigid and flexible

MAX OPERATING TEMPERATURE: 100 °C

MAX SHORT-TIME TEMPERATURE: 160 °C

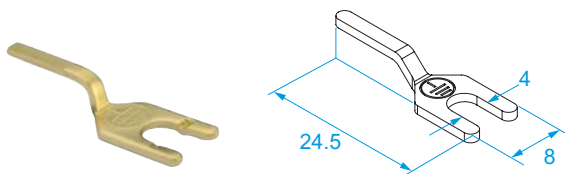
TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

ACCORDING TO STD.: EN 60257, EN 60998-1: 2004, EN 60998-2-1: 2004

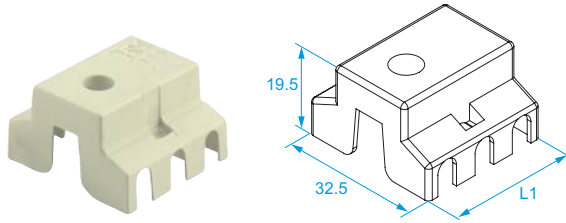
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	450	24	100	0,25

Code	Ways	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	
971CS	1	12,85	10	20	10	21	10	22,7	100/100
972CS	2	22,05	10	20	10	21	10	22,7	100/100
973CS	3	32,05	10	20	10	21	10	22,7	100/100
974CS	4	42,05	10	20	10	21	10	22,7	100/100
975CS	5	52,05	10	20	10	21	10	22,7	100/100


ACCESSORIES FOR 963/963CS AND M092, M093, M094 SERIES - FORK TERMINAL FOR GROUNDING


Code	Description	
963T	Fork terminal for grounding	100/1000

ACCESSORIES FOR M093 SERIES - PROTECTION COVERS - FROM 3 TO 5 WAYS



INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

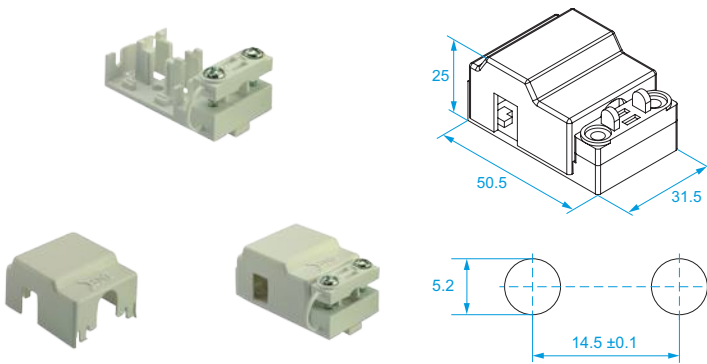
MAX OPERATING TEMPERATURE: 110 °C

ASSEMBLY: Snap onto M093 series terminal block or fasten with M3 screw through the through hole on the cover and terminal block.

Code	Terminal block ways	Color	L1 (mm)	
933	2-3	<input type="checkbox"/> Natural	30	1000/1000
935	4-5	<input type="checkbox"/> Natural	50	500/500

HALOGEN FREE

ACCESSORIES FOR M093 AND M094 SERIES - TERMINAL-BLOCK BASES - 3 WAYS



Polyamide holder with cable clamp and cover for M093 and M094 3 series terminal blocks.

The holder can be supplied without cover.

INSULATING HOUSING: polyamide (PA 6.6) natural color UL 94 V2

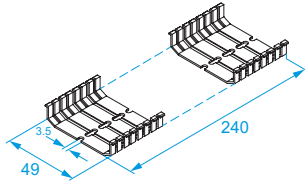
MAX OPERATING TEMPERATURE: 100 °C

ASSEMBLY: Drilling template as shown in the figure

Code	Description	Terminal block ways	
M0983	Holder for M093 series	3	1000/1000
M0984	Holder for M094 series	3	1000/1000
M098C	protection cover		500/500

HALOGEN FREE

ACCESSORIES FOR M093 AND M094 SERIES - TERMINAL-BLOCK BASES - 24 WAYS



Accessory for properly routing input and output cables, to increase the insulation between terminal blocks and board, and to protect against accidental exit of conductors from the terminal block.

Pre-cut for easy sizing based on the number of terminal block poles.

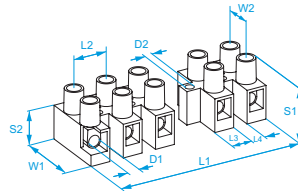
INSULATING HOUSING: polyamide (PA 6.6) white color UL 94 V2

MAX OPERATING TEMPERATURE: 125 °C

Code	Terminal block ways	
M099	1-24	50/200

**HALOGEN
FREE**

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M092 SERIES WITH FIBERGLASS



High temperature version of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	250	24	140	0,25
	-	20-16	600	10 (*)	110	0,5

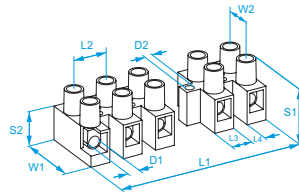
* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92GF1	1	Brown	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF2	2	Brown	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF3	3	Brown	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF4	4	Brown	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF5	5	Brown	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF6	6	Brown	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92GF7	7	Brown	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF8	8	Brown	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF9	9	Brown	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF10	10	Brown	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GF11	11	Brown	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
M92GF	12	Brown	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M092 SERIES WITH FIBERGLASS AND WIRE PROTECTION



High temperature version with wire protection of the M092 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	250	24	140	0,25
	-	20-16	600	10 (*)	110	0,5

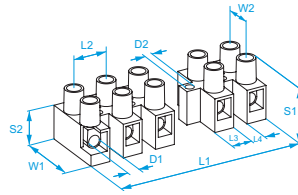
* 15 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
92FS1	1	Brown	5,6 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS2	2	Brown	13,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS3	3	Brown	21,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS4	4	Brown	30 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS5	5	Brown	37,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS6	6	Brown	45,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	Contact BM
92FS7	7	Brown	54 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS8	8	Brown	61,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS9	9	Brown	69,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS10	10	Brown	77,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92FS11	11	Brown	85,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	
92GFCS	12	Brown	93,5 ± 1	8	5,5	2,5	15,2	6	15,3	8,7	3	2,6	50/700

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093 SERIES WITH FIBERGLASS



High temperature version of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	4	-	400	32	150	0,25
	-	18-12	600	20 (*)	110	0,5

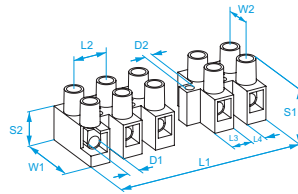
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93GF1	1	Brown	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF2	2	Brown	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF3	3	Brown	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF4	4	Brown	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF5	5	Brown	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF6	6	Brown	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93GF7	7	Brown	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF8	8	Brown	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF9	9	Brown	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF10	10	Brown	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GF11	11	Brown	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
M93GF	12	Brown	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093 SERIES WITH FIBERGLASS AND WIRE PROTECTION



High temperature version with wire protection of the M093 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2.5	-	400	24	150	0,25
	-	18-12	600	20 (*)	110	0,5

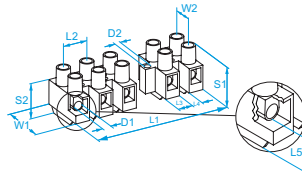
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93FS1	1	Brown	6,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS2	2	Brown	16,7 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS3	3	Brown	26,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS4	4	Brown	36,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS5	5	Brown	46,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS6	6	Brown	56,6 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	Contact BM
93FS7	7	Brown	67 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS8	8	Brown	77 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS9	9	Brown	87 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS10	10	Brown	97 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93FS11	11	Brown	107 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	
93GFCS	12	Brown	117 ± 1	10	6,7	3,3	20,5	10	17,5	10	3,3	3,3	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093H SERIES WITH FIBERGLASS



High temperature version of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	400	32	150	0,25
	-	18-12	600	20 (*)	110	0,5

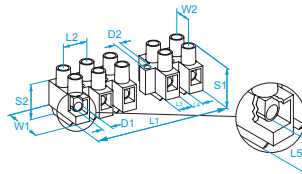
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93HGF1	1	Brown	6,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF2	2	Brown	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF3	3	Brown	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF4	4	Brown	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF5	5	Brown	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF6	6	Brown	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
93HGF7	7	Brown	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF8	8	Brown	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF9	9	Brown	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF10	10	Brown	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HGF11	11	Brown	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93HGF	12	Brown	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M093H SERIES WITH FIBERGLASS AND WIRE PROTECTION



High temperature version with wire protection of the M093H series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7 mm

PROTECTION GRADE: IP20

CLEARANCE: 8.5 mm to withstand 8000V rated impulse voltage (EN 60335-1, par.29)

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	2,5	-	400	24	150	0,25
	-	18-12	600	20 (*)	110	0,5

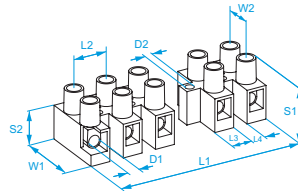
* 30 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
93HFS1	1	Brown	6,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS2	2	Brown	16,7 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS3	3	Brown	26,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS4	4	Brown	36,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS5	5	Brown	46,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS6	6	Brown	56,6 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	Contact BM
93HFS7	7	Brown	67 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS8	8	Brown	77 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS9	9	Brown	87 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS10	10	Brown	97 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
93HFS11	11	Brown	107 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	
M93HGFC5	12	Brown	117 ± 1	10	6,7	3,4	8,5	20,5	10	20	12,5	3,3	3,3	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M094 SERIES WITH FIBERGLASS



High temperature version of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	6	-	400	41	140	0,7
	-	18-10	600	30 (*)	110	0,9

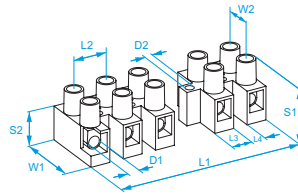
* 40 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94GF1	1	Brown	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF2	2	Brown	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF3	3	Brown	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF4	4	Brown	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF5	5	Brown	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF6	6	Brown	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94GF7	7	Brown	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF8	8	Brown	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF9	9	Brown	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF10	10	Brown	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GF11	11	Brown	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
M94GF	12	Brown	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/50

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M094 SERIES WITH FIBERGLASS AND WIRE PROTECTION



High temperature version with wire protection of the M094 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M3,5)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 7.5 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	4	-	400	23	140	0,7
	-	18-10	600	30 (*)	110	0,9

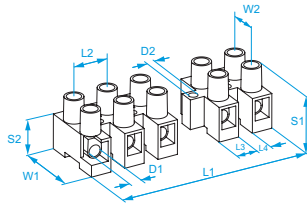
* 40 A rated for Factory Wiring Only

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
94FS1	1	Brown	7,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS2	2	Brown	19,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS3	3	Brown	31,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS4	4	Brown	43,6 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS5	5	Brown	55,5 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS6	6	Brown	68 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	Contact BM
94FS7	7	Brown	80 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS8	8	Brown	92 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS9	9	Brown	104 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS11	11	Brown	128 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94FS10	10	Brown	116 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	
94GFCS	12	Brown	140 ± 1	12	7,3	4,7	23	10	20,7	12,2	4,2	3,1	50/300

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M095 SERIES WITH FIBERGLASS



High temperature version of the M095 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M4)

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 9 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

TERMINAL BLOCKS

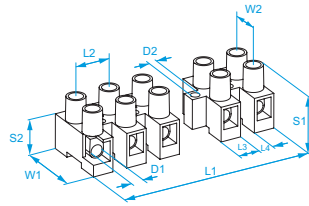
	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	10	-	400	57	140	0,7
	-	18-8	600	50	110	1,2

Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95GF1	1	Brown	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF2	2	Brown	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF3	3	Brown	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF4	4	Brown	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF5	5	Brown	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF6	6	Brown	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95GF7	7	Brown	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF8	8	Brown	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF9	9	Brown	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF10	10	Brown	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GF11	11	Brown	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
M95GF	12	Brown	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/10

file n° E 70156

HALOGEN FREE

MULTIWAY TERMINAL BLOCKS - NYLON - FROM 1 TO 12 WAYS - M095 SERIES WITH FIBERGLASS AND WIRE PROTECTION



High temperature version with wire protection of the M095 series

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel (M4)

WIRE PROTECTION: stainless steel

INSULATION SELF-EXTINGUISHING: EN 60335-1: 2002+A2:2006 (par. 30.2.3), EN 60695-2-10 a 850 °C, EN 60695-2-11

CONDUCTOR TYPE: rigid and flexible

MAX SHORT-TIME TEMPERATURE: 200 °C

TEST VOLTAGE: 2500 V

STRIPPING LENGTH: 9 mm

PROTECTION GRADE: IP20

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

	Section (mm ²)	Section (AWG)	Rated voltage (V)	Test current (A)	Max operating temperature (°C)	Torque (Nm)
	6	-	400	41	140	0,7
	-	18-8	600	50	110	1,2

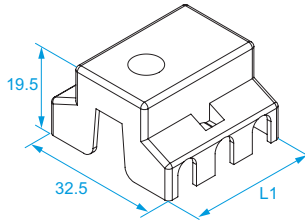
Code	Ways	Color	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	S2 (mm)	D1 (mm)	D2 (mm)	
95FS1	1	Brown	9,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS2	2	Brown	24,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS3	3	Brown	39 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS4	4	Brown	54,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS5	5	Brown	69,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS6	6	Brown	84 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	Contact BM
95FS7	7	Brown	99 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS8	8	Brown	114,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS9	9	Brown	129,5 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS10	10	Brown	145 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95FS11	11	Brown	160,2 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	
95GFCS	12	Brown	174 ± 1	15	9,4	5,6	25,3	11	25,7	15,7	5	4,2	10/200

ACCESSORIES FOR M093 SERIES - PROTECTION COVERS WITH FIBERGLASS - FROM 3 TO 5 WAYS

INSULATING HOUSING: polyamide (PA 6.6) brown color and 25% fiberglass UL 94 V0

MAX OPERATING TEMPERATURE: 150 °C

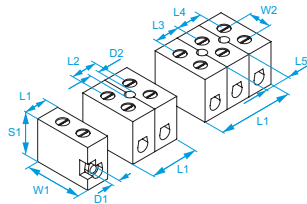
ASSEMBLY: Snap onto M093 series terminal block or fasten with M3 screw through the through hole on the cover and terminal block.



Code	Terminal block ways	Color	L1 (mm)	
933GF	2-3	Brown	30	1000/1000
935GF	4-5	Brown	50	500/500

**HALOGEN
FREE**

MULTIWAY TERMINAL BLOCKS - STEATITE



Terminal blocks for high temperature applications

INSULATING HOUSING: steatite

CONDUCTIVE BODY: brass

CONDUCTOR TYPE: rigid and flexible

MOUNTING HOLE: through hole (no threaded)

MAX OPERATING TEMPERATURE (METALLIC PARTS): 300 °C

MAX OPERATING TEMPERATURE (INSULATING HOUSING): 1000 °C

PROTECTION GRADE: IP00

ACCORDING TO STD.: EN 60998-1: 2004, EN 60998-2-1: 2004

Code	Section (mm ²)	Ways	Test current (A)	Screw	Torque (Nm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W2 (mm)	S1 (mm)	D1 (mm)	D2 (mm)	
9516	4	1	32	M3	0,25	10					25	10	18,5	3,1		117/117
9517		2	32	M3	0,25	22	11,5				25	10	18,5	3,1	4,1	54/54
9518		3	32	M3	0,25	34		11,5	11,5	11,5	25	10	18,5	3,1	4,1	36/36
9519	6	1	41	M3.5	0,4	11					26	10	20,5	4,2		117/117
9520		2	41	M3.5	0,4	24	12,5				26	10	20,5	4,2	4,1	54/54
9521		3	41	M3.5	0,4	37		11,5	11,5	11,5	26	10	20,5	4,2	4,1	36/36
9522	16	1	76	M4	0,7	15					32,5	13	23	6		54/54
9523		2	76	M4	0,7	30	14,5				32,5	13	23	6	4,1	27/27
9524		3	76	M4	0,7	45		11,5	11,5	11,5	32,5	13	23	6	4,1	18/18







CABLE-GLANDS

NYLON CABLE GLANDS	pag. 166
BRASS CABLE GLANDS	pag. 182
ACCESSORIES	pag. 189

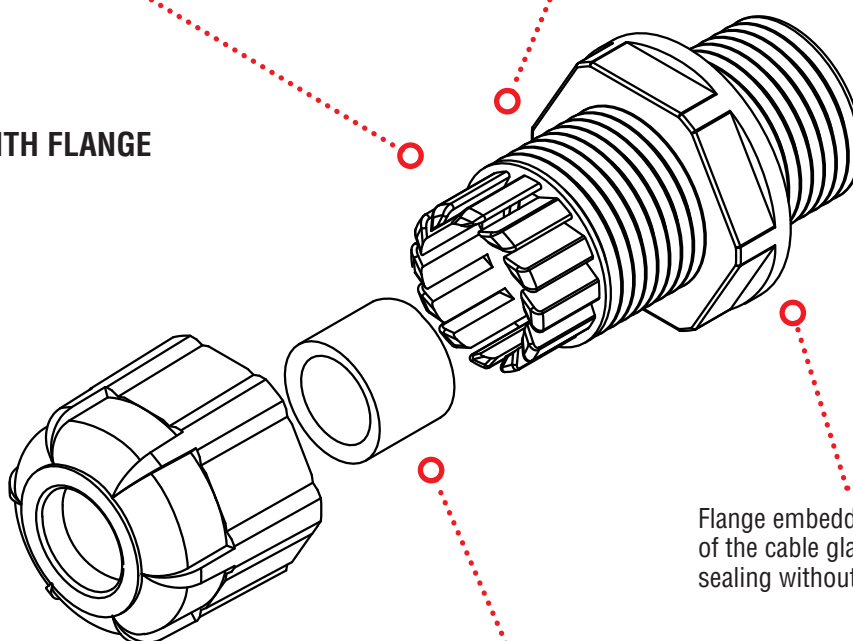
CERTIFIED CABLE GLANDS FOR ELECTRICAL INSTALLATIONS

CABLE-GLANDS

Sealing slots that allow for smooth progressive clamping and provide remarkable resistance to the cable's traction and twist.

Cable gland with a thread design engineered to ensure excellent mechanical sealing and prevent accidental unscrewing.

CABLE GLAND WITH FLANGE PG THREAD IP68



Flange embedded directly on the body of the cable gland guaranteeing IP68 sealing without the need of a gasket.

Pressure-screw with strengthened hexagon that allows easy and secure screwing.

Nitrile rubber inner gasket that guarantees perfect IP68 sealing on the cable.



file n° E171361



file n° E171361

IP68

Find detailed information about this product on page **174**.

CABLE GLANDS: CORRECT INSTALLATION

THREAD DIAMETER · INSTALLATION HOLE DIAMETER

Metric Thread EN 60423

		M 12x1,5	M 16x1,5	M 20x1,5	M 25x1,5	M 32x1,5	M 40x1,5	M 50x1,5	M 63x1,5
Thread diameter	mm	12	16	20	25	32	40	50	63
Hole diameter	mm	12,5	16,5	20,5	25,5	32,5	40,5	50,5	63,5

PG Thread DIN 40430

		PG 7	PG 9	PG 11	PG 13,5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Thread diameter	mm	12,5	15,2	18,6	20,4	22,5	28,3	37	47	54	59,3
Hole diameter	mm	13	15,5	19	21	23	28,5	37,5	47,5	54,5	60

GAS Thread ISO 228/1

		GAS					GAS 1				GAS 2		GAS 3
		1/4	3/8	1/2	5/8	3/4	GAS 1	1/8	1/4	1/2	GAS 2	1/2	GAS 3
Thread diameter	mm	13,2	16,7	21	22,9	26,4	33,3	37,9	41,9	47,8	59,6	75,2	87,9
Hole diameter	mm	13,5	17	21,5	23,5	27	33,5	38,5	42,5	48	60	75,5	88,5

MINIMUM TORQUE VALUE TO GUARANTEE IP68 PROTECTION

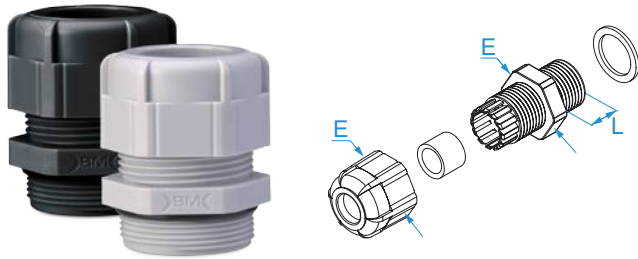
Metric Thread EN 60423

		M 12x1,5	M 16x1,5	M 20x1,5	M 25x1,5	M 32x1,5	M 40x1,5	M 50x1,5	M 63x1,5
Head torque	(Nm)	2	2,5	5	6	7	10	11,5	12,5

PG Thread DIN 40430

		PG 7	PG 9	PG 11	PG 13,5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Head torque	(Nm)	2,5	3,75	3,75	5	6	7	10	11,5	12,5	12,5

NYLON CABLE GLANDS · METRIC THREAD · IP68 · STANDARD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

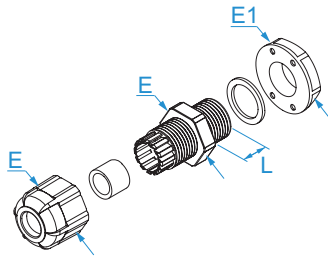
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: don't remove or move the gasket; tighten on a flat and smooth surface.

CABLE-GLANDS

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	
4912	Grey RAL 7035	M 12 x 1.5	3 - 6,5	9	16	50/250
4912N	Black RAL 9005		3 - 6,5	9	16	50/250
4917	Grey RAL 7035	M 16 x 1.5	4 - 8	9	19	50/250
4917N	Black RAL 9005		4 - 8	9	19	50/250
4920	Grey RAL 7035	M 20 x 1.5	6 - 12	10	24	25/125
4920N	Black RAL 9005		6 - 12	10	24	25/125
4925	Grey RAL 7035	M 25 x 1.5	13 - 18	12	33	25/125
4925N	Black RAL 9005		13 - 18	12	33	25/125
4932	Grey RAL 7035	M 32 x 1.5	16 - 21	12	36	20/100
4932N	Black RAL 9005		16 - 21	12	36	20/100
4940	Grey RAL 7035	M 40 x 1.5	20 - 26	15	46	10/50
4940N	Black RAL 9005		20 - 26	15	46	10/50
4950	Grey RAL 7035	M 50 x 1.5	32 - 38	18	60	5/25
4950N	Black RAL 9005		32 - 38	18	60	5/25
4963	Grey RAL 7035	M 63 x 1.5	37 - 44	18	68	5/5
4963N	Black RAL 9005		37 - 44	18	68	5/5



NYLON CABLE GLANDS · METRIC THREAD · IP68 · WITH LOCKNUT


MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

LOCKNUT: with flange

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

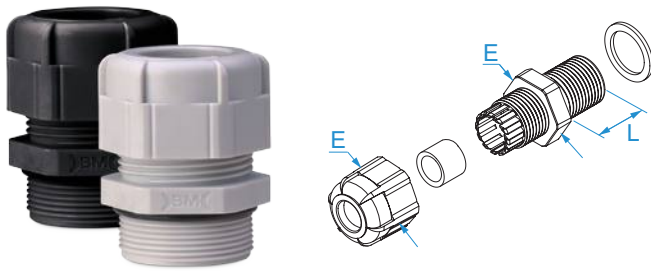
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
4712	Grey RAL 7035	M 12 x 1.5	3 - 6,5	9	16	17	25/250
4712N	Black RAL 9005		3 - 6,5	9	16	17	25/250
4717	Grey RAL 7035	M 16 x 1.5	4 - 8	9	19	22	25/250
4717N	Black RAL 9005		4 - 8	9	19	22	25/250
4720	Grey RAL 7035	M 20 x 1.5	6 - 12	10	24	26	25/250
4720N	Black RAL 9005		6 - 12	10	24	26	25/250
4725	Grey RAL 7035	M 25 x 1.5	13 - 18	12	33	32	20/100
4725N	Black RAL 9005		13 - 18	12	33	32	20/100
4732	Grey RAL 7035	M 32 x 1.5	16 - 21	12	36	41	20/100
4732N	Black RAL 9005		16 - 21	12	36	41	20/100
4740	Grey RAL 7035	M 40 x 1.5	20 - 26	15	46	49	10/10
4740N	Black RAL 9005		20 - 26	15	46	49	10/10
4750	Grey RAL 7035	M 50 x 1.5	32 - 38	18	60	61	5/5
4750N	Black RAL 9005		32 - 38	18	60	61	5/5
4763	Grey RAL 7035	M 63 x 1.5	37 - 44	18	68	73	5/5
4763N	Black RAL 9005		37 - 44	18	68	73	5/5



NYLON CABLE GLANDS · METRIC THREAD · IP68 · WITH LONG THREAD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

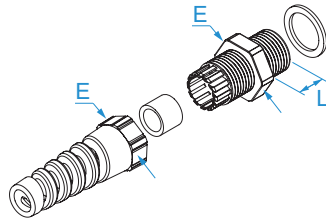
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

CABLE-GLANDS

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	
4912L	Grey RAL 7035	M 12 x 1.5	3 - 6,5	15	16	25/25
4912LN	Black RAL 9005		3 - 6,5	15	16	25/25
4917L	Grey RAL 7035	M 16 x 1.5	4 - 8	15	19	25/25
4917LN	Black RAL 9005		4 - 8	15	19	25/25
4920L	Grey RAL 7035	M 20 x 1.5	6 - 12	15	24	10/10
4920LN	Black RAL 9005		6 - 12	15	24	10/10
4925L	Grey RAL 7035	M 25 x 1.5	13 - 18	15	33	10/10
4925LN	Black RAL 9005		13 - 18	15	33	10/10
4932L	Grey RAL 7035	M 32 x 1.5	16 - 21	15	36	10/10
4932LN	Black RAL 9005		16 - 21	15	36	10/10
4940L	Grey RAL 7035	M 40 x 1.5	20 - 26	18	46	5/5
4940LN	Black RAL 9005		20 - 26	18	46	5/5
4950L	Grey RAL 7035	M 50 x 1.5	32 - 38	20	60	3/3
4950LN	Black RAL 9005		32 - 38	20	60	3/3
4963L	Grey RAL 7035	M 63 x 1.5	37 - 44	20	68	3/3
4963LN	Black RAL 9005		37 - 44	20	68	3/3



NYLON CABLE GLANDS · METRIC THREAD · IP68 · WITH SPIRAL CABLE PROTECTION


MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

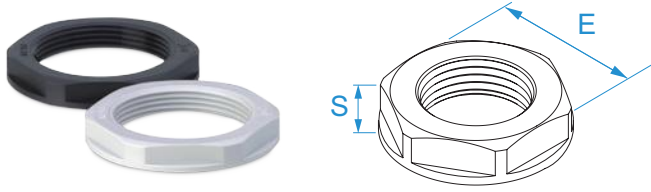
ACCORDING TO STD.: EN 62444:2013

Code	Color	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	
4912S	Grey RAL 7035	M 12 x 1.5	3 - 6,5	15	16	25/25
4912SN	Black RAL 9005		3 - 6,5	15	16	25/25
4917S	Grey RAL 7035	M 16 x 1.5	4 - 8	15	19	25/25
4917SN	Black RAL 9005		4 - 8	15	19	25/25
4920S	Grey RAL 7035	M 20 x 1.5	6 - 12	15	24	10/10
4920SN	Black RAL 9005		6 - 12	15	24	10/10
4925S	Grey RAL 7035	M 25 x 1.5	13 - 18	15	33	10/10
4925SN	Black RAL 9005		13 - 18	15	33	10/10



ACCESSORIES FOR NYLON CABLE GLANDS: METRIC THREAD · HEXAGONAL LOCKNUTS WITH FLANGE

MATERIAL: polyamide reinforced with fiberglass
OPERATING TEMPERATURE: from -20 °C to +90 °C



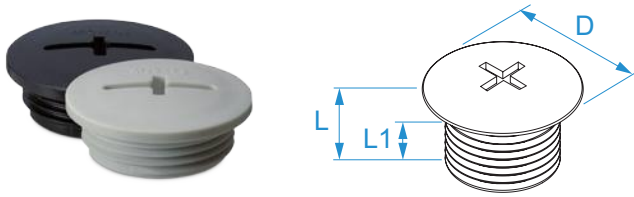
CABLE-GLANDS

Code	Color	Metric thread size (EN60423)	E wrench (nut)	S (mm)	
4812	Grey RAL 7035	M 12 x 1.5	17	5	100/500
4812N	Black RAL 9005		17	5	100/500
4817	Grey RAL 7035	M 16 x 1.5	22	5	100/500
4817N	Black RAL 9005		22	5	100/500
4820	Grey RAL 7035	M 20 x 1.5	26	6	100/500
4820N	Black RAL 9005		26	6	100/500
4825	Grey RAL 7035	M 25 x 1.5	32	6	100/500
4825N	Black RAL 9005		32	6	100/500
4832	Grey RAL 7035	M 32 x 1.5	41	7	50/50
4832N	Black RAL 9005		41	7	50/50
4840	Grey RAL 7035	M 40 x 1.5	50	7	25/25
4840N	Black RAL 9005		50	7	25/25
4850	Grey RAL 7035	M 50 x 1.5	60	8	25/25
4850N	Black RAL 9005		60	8	25/25
4863	Grey RAL 7035	M 63 x 1.5	75	8	10/10
4863N	Black RAL 9005		75	8	10/10

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE GLANDS: METRIC THREAD · IP56 · STOP-ENDS

MATERIAL: polyamide reinforced with fiberglass
OPERATING TEMPERATURE: from -40 °C to +100 °C
ASSEMBLY: tighten on a flat and smooth surface



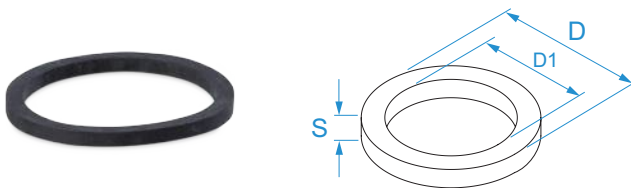
Code	Color	Metric thread size (EN60423)	D (mm)	L (mm)	L1 (mm)	
4612	Grey RAL 7035	M 12 x 1.5	15	8	6	100/100
4612N	Black RAL 9005		15	8	6	100/100
4616	Grey RAL 7035	M 16 x 1.5	20	9	6	100/100
4616N	Black RAL 9005		20	9	6	100/100
4620	Grey RAL 7035	M 20 x 1.5	24	9,5	6	100/100
4620N	Black RAL 9005		24	9,5	6	100/100
4625	Grey RAL 7035	M 25 x 1.5	30	10	8	100/100
4625N	Black RAL 9005		30	10	8	100/100
4632	Grey RAL 7035	M 32 x 1.5	37	13,5	8	100/100
4632N	Black RAL 9005		37	13,5	8	100/100
4640	Grey RAL 7035	M 40 x 1.5	46	15	8	50/50
4640N	Black RAL 9005		46	15	8	50/50
4650	Grey RAL 7035	M 50 x 1.5	56	16	10	50/50
4650N	Black RAL 9005		56	16	10	50/50
4663	Grey RAL 7035	M 63 x 1.5	70	16	12	25/25
4663N	Black RAL 9005		70	16	12	25/25

HALOGEN
FREE

IP56

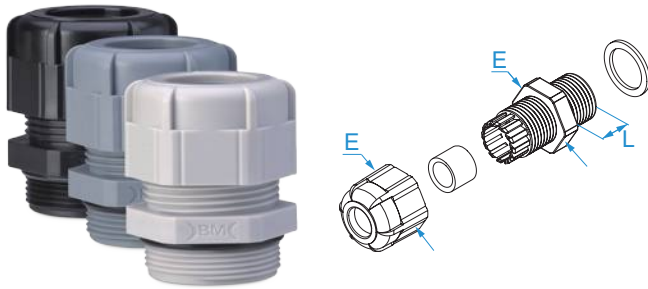
ACCESSORIES FOR NYLON CABLE GLANDS: METRIC THREAD · FLAT GASKETS

MATERIAL: EPDM, 60 Shore A
OPERATING TEMPERATURE: from -40 °C to +140 °C



Code	For thread	D (mm)	D1 (mm)	S (mm)	
4912G	M 12	16	11,8	2	100/500
4917G	M 16	20	15,8	2	100/500
4920G	M 20	24	19,8	2	100/500
4925G	M 25	29	24,8	2	100/500
4932G	M 32	36	31,8	2	100/500
4940G	M 40	46	39,8	2	100/500
4950G	M 50	56	49,8	2	100/100
4963G	M 63	69	62,8	2	100/100

NYLON CABLE GLANDS · PG THREAD · IP68 · STANDARD



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

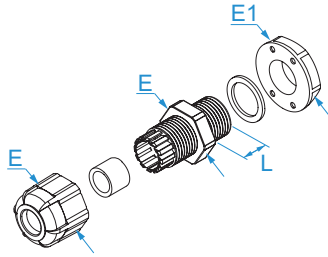
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

CABLE-GLANDS

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4007	Grey RAL 7035	PG 7	3 - 6,5	9	16	50/500
4307	Grey RAL 7001		3 - 6,5	9	16	50/500
4007N	Black RAL 9005		3 - 6,5	9	16	50/500
4009	Grey RAL 7035	PG 9	4 - 8	9	19	50/500
4309	Grey RAL 7001		4 - 8	9	19	50/500
4009N	Black RAL 9005		4 - 8	9	19	50/500
4011	Grey RAL 7035	PG 11	5 - 10	9	22	25/25
4311	Grey RAL 7001		5 - 10	9	22	25/25
4011N	Black RAL 9005		5 - 10	9	22	25/25
4013	Grey RAL 7035	PG 13.5	6 - 11	10	24	25/25
4313	Grey RAL 7001		6 - 11	10	24	25/25
4013N	Black RAL 9005		6 - 11	10	24	25/25
4016	Grey RAL 7035	PG 16	10 - 13	10	27	25/25
4316	Grey RAL 7001		10 - 13	10	27	25/25
4016N	Black RAL 9005		10 - 13	10	27	25/25
4021	Grey RAL 7035	PG 21	13 - 18	12	33	20/200
4321	Grey RAL 7001		13 - 18	12	33	20/200
4021N	Black RAL 9005		13 - 18	12	33	20/200
4029	Grey RAL 7035	PG 29	18 - 25	12	42	10/100
4329	Grey RAL 7001		18 - 25	12	42	10/100
4029N	Black RAL 9005		18 - 25	12	42	10/100
4036	Grey RAL 7035	PG 36	25 - 32	15	52	5/50
4336	Grey RAL 7001		25 - 32	15	52	5/50
4036N	Black RAL 9005		25 - 32	15	52	5/50
4042	Grey RAL 7035	PG 42	32 - 38	18	60	5/50
4342	Grey RAL 7001		32 - 38	18	60	5/50
4042N	Black RAL 9005		32 - 38	18	60	5/50
4048	Grey RAL 7035	PG 48	37 - 44	18	68	5/50
4348	Grey RAL 7001		37 - 44	18	68	5/50
4048N	Black RAL 9005		37 - 44	18	68	5/50



NYLON CABLE GLANDS · PG THREAD · IP68 · WITH LOCKNUT


MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

LOCKNUT: with flange

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

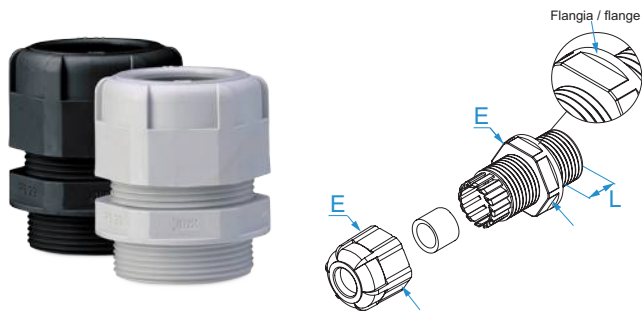
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
4707	Grey RAL 7035	PG 7	3 - 6,5	9	16	19	10/100
4707N	Black RAL 9005		3 - 6,5	9	16	19	10/100
4709	Grey RAL 7035	PG 9	4 - 8	9	19	22	10/100
4709N	Black RAL 9005		4 - 8	9	19	22	10/100
4711	Grey RAL 7035	PG 11	5 - 10	9	22	24	10/100
4711N	Black RAL 9005		5 - 10	9	22	24	10/100
4713	Grey RAL 7035	PG 13.5	6 - 11	10	24	27	10/100
4713N	Black RAL 9005		6 - 11	10	24	27	10/100
4716	Grey RAL 7035	PG 16	10 - 13	10	27	30	10/100
4716N	Black RAL 9005		10 - 13	10	27	30	10/100
4721	Grey RAL 7035	PG 21	13 - 18	12	33	36	10/100
4721N	Black RAL 9005		13 - 18	12	33	36	10/100
4729	Grey RAL 7035	PG 29	18 - 25	12	42	46	10/50
4729N	Black RAL 9005		18 - 25	12	42	46	10/50
4736	Grey RAL 7035	PG 36	25 - 32	15	52	56	5/5
4736N	Black RAL 9005		25 - 32	15	52	56	5/5
4742	Grey RAL 7035	PG 42	32 - 38	18	60	65	5/5
4742N	Black RAL 9005		32 - 38	18	60	65	5/5
4748	Grey RAL 7035	PG 48	37 - 44	18	68	69	5/5
4748N	Black RAL 9005		37 - 44	18	68	69	5/5



NYLON CABLE GLANDS - PG THREAD - IP68 - WITH FLANGE



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET: NBR (nitrile rubber), 60 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: no gasket needed; tighten on a flat and smooth surface.

CABLE-GLANDS

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4907**	Grey RAL 7035	PG 7	3 - 6,5	8	15	50/250
49071**	Black RAL 9005		3 - 6,5	8	15	50/250
4909**	Grey RAL 7035	PG 9	4 - 8	8	19	50/250
49091**	Black RAL 9005		4 - 8	8	19	50/250
4911**	Grey RAL 7035	PG 11	5 - 10	8	22	50/250
49111**	Black RAL 9005		5 - 10	8	22	50/250
4913*	Grey RAL 7035	PG 13.5	6 - 12	10	24	50/250
49131*	Black RAL 9005		6 - 12	10	24	50/250
4916*	Grey RAL 7035	PG 16	10 - 14	10	27	50/250
49161*	Black RAL 9005		10 - 14	10	27	50/250
4921*	Grey RAL 7035	PG 21	13 - 18	11	33	25/125
49211*	Black RAL 9005		13 - 18	11	33	25/125
4929	Grey RAL 7035	PG 29	18 - 25	11	42	20/100
49291	Black RAL 9005		18 - 25	11	42	20/100
4936*	Grey RAL 7035	PG 36	22 - 32	13	53	10/50
49361*	Black RAL 9005		22 - 32	13	53	10/50

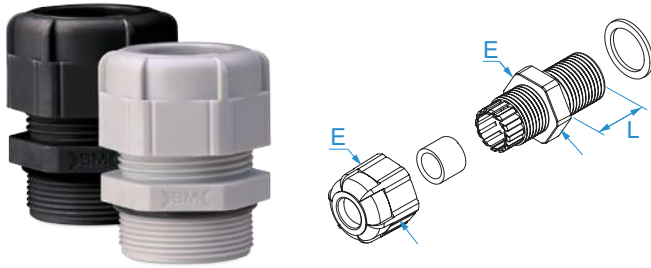


* file n° E171361



** file n° E171361



NYLON CABLE GLANDS · PG THREAD · IP68 · WITH LONG THREAD


MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

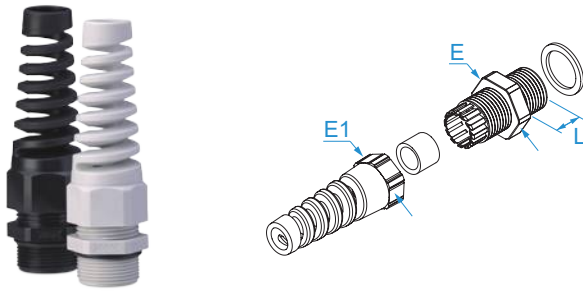
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4007L	Grey RAL 7035	PG 7	3 - 6,5	15	16	25/25
4007LN	Black RAL 9005		3 - 6,5	15	16	25/25
4009L	Grey RAL 7035	PG 9	4 - 8	15	19	25/25
4009LN	Black RAL 9005		4 - 8	15	19	25/25
4011L	Grey RAL 7035	PG 11	5 - 10	15	22	25/25
4011LN	Black RAL 9005		5 - 10	15	22	25/25
4013L	Grey RAL 7035	PG 13.5	6 - 11	15	24	10/10
4013LN	Black RAL 9005		6 - 11	15	24	10/10
4016L	Grey RAL 7035	PG 16	10 - 13	15	27	10/10
4016LN	Black RAL 9005		10 - 13	15	27	10/10
4021L	Grey RAL 7035	PG 21	13 - 18	15	33	10/10
4021LN	Black RAL 9005		13 - 18	15	33	10/10
4029L	Grey RAL 7035	PG 29	18 - 25	15	42	10/10
4029LN	Black RAL 9005		18 - 25	15	42	10/10
4036L	Grey RAL 7035	PG 36	25 - 32	18	52	5/5
4036LN	Black RAL 9005		25 - 32	18	52	5/5
4042L	Grey RAL 7035	PG 42	32 - 38	20	60	3/3
4042LN	Black RAL 9005		32 - 38	20	60	3/3
4048L	Grey RAL 7035	PG 48	37 - 44	20	68	3/3
4048LN	Black RAL 9005		37 - 44	20	68	3/3



NYLON CABLE GLANDS - PG THREAD - IP68 - WITH SPIRAL CABLE PROTECTION



MATERIAL: polyamide (PA 6.6), self-extinguishing according to UL 94 V2 and IEC 695-2-1 (850 °C)

OPERATING TEMPERATURE: from -20 °C to +90 °C

INNER GASKET AND WASHER: NBR (nitrile rubber), 70 Shore A

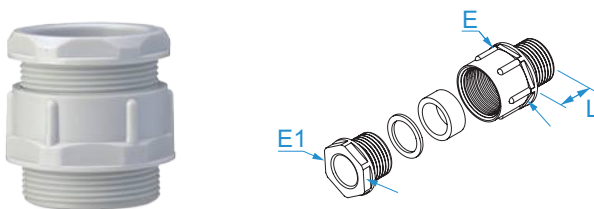
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	
4007S	Grey RAL 7035	PG 7	3 - 6,5	15	16	25/25
4007SN	Black RAL 9005		3 - 6,5	15	16	25/25
4009S	Grey RAL 7035	PG 9	4 - 8	15	19	25/25
4009SN	Black RAL 9005		4 - 8	15	19	25/25
4011S	Grey RAL 7035	PG 11	5 - 10	15	22	10/10
4011SN	Black RAL 9005		5 - 10	15	22	10/10
4013S	Grey RAL 7035	PG 13.5	6 - 11	15	24	10/10
4013SN	Black RAL 9005		6 - 11	15	24	10/10
4016S	Grey RAL 7035	PG 16	10 - 13	15	27	10/10
4016SN	Black RAL 9005		10 - 13	15	27	10/10
4021S	Grey RAL 7035	PG 21	13 - 16	15	33	10/10
4021SN	Black RAL 9005		13 - 16	15	33	10/10



NYLON CABLE GLANDS - PG THREAD - IP54 - REINFORCED WITH FIBERGLASS



MATERIAL: polyamide reinforced with fiberglass

SELF-EXTINGUISHING: UL 94 HB

OPERATING TEMPERATURE: from -20 °C to +80 °C

ACCORDING TO STD.: EN 62444:2013

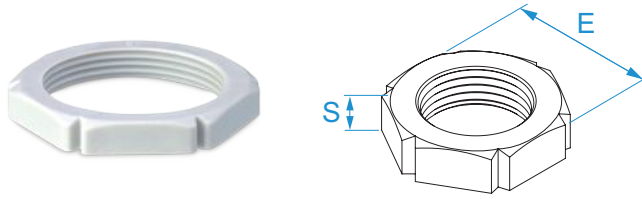
ASSEMBLY: tighten on a flat and smooth surface

Code	Color	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
3596	Grey RAL 7035	PG 7	3,5 - 6	8	15	13	50/50
3597	Grey RAL 7035	PG 9	4,5 - 7	8	19	16	50/50
3598	Grey RAL 7035	PG 11	6 - 9	8	22	19	50/50
3599	Grey RAL 7035	PG 13.5	9 - 12	9	24	21	50/50
3600	Grey RAL 7035	PG 16	11 - 14	10	27	23	50/50
3601	Grey RAL 7035	PG 21	14 - 18	11	33	30	25/25
3602	Grey RAL 7035	PG 29	18 - 25	11	42	40	20/20
3603	Grey RAL 7035	PG 36	25 - 32	13	53	50	10/10
3604	Grey RAL 7035	PG 42	30 - 38	13	60	55	10/10
3605	Grey RAL 7035	PG 48	38 - 44	15	65	60	5/5



ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD - HEXAGONAL LOCKNUTS

MATERIAL: polyamide reinforced with fiberglass
OPERATING TEMPERATURE: from -20 °C to +90 °C



Code	Color	PG thread size (DIN40430)	E wrench (nut)	S (mm)	
3696	Grey RAL 7035	PG 7	19	5	100/100
3697	Grey RAL 7035	PG 9	22	5	100/100
3698	Grey RAL 7035	PG 11	24	4	100/100
3699	Grey RAL 7035	PG 13.5	27	6	100/100
3700	Grey RAL 7035	PG 16	30	6	100/100
3701	Grey RAL 7035	PG 21	36	7	100/100
3702	Grey RAL 7035	PG 29	46	7	50/50
3703	Grey RAL 7035	PG 36	60	8	25/25
3704	Grey RAL 7035	PG 42	65	8	25/25
3705	Grey RAL 7035	PG 48	70	8	10/10

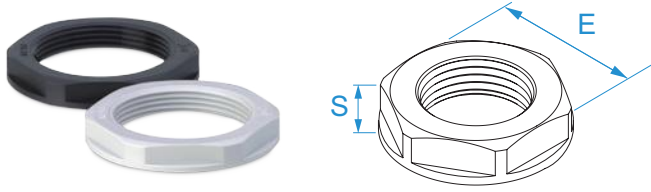
HALOGEN
FREE

ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD - HEXAGONAL LOCKNUTS WITH FLANGE

MATERIAL: polyamide (PA 6.6)

SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -20 °C to +90 °C



CABLE-GLANDS

Code	Color	PG thread size (DIN40430)	E wrench (nut)	S (mm)	
4807**	Grey RAL 7035	PG 7	19	5	100/500
4807N**	Black RAL 9005		19	5	100/500
4809**	Grey RAL 7035	PG 9	22	5	100/500
4809N**	Black RAL 9005		22	5	100/500
4811**	Grey RAL 7035	PG 11	24	5	100/500
4811N**	Black RAL 9005		24	5	100/500
4813*	Grey RAL 7035	PG 13.5	27	6	100/500
4813N*	Black RAL 9005		27	6	100/500
4816*	Grey RAL 7035	PG 16	30	6	100/500
4816N*	Black RAL 9005		30	6	100/500
4821*	Grey RAL 7035	PG 21	36	7	100/500
4821N*	Black RAL 9005		36	7	100/500
4829	Grey RAL 7035	PG 29	46	7	50/50
4829N	Black RAL 9005		46	7	50/50
4836*	Grey RAL 7035	PG 36	60	8	25/25
4836N*	Black RAL 9005		60	8	25/25
4842	Grey RAL 7035	PG 42	65	8	25/25
4842N	Black RAL 9005		65	8	25/25
4848	Grey RAL 7035	PG 48	70	8	10/10
4848N	Black RAL 9005		70	8	10/10



* file n° E171361



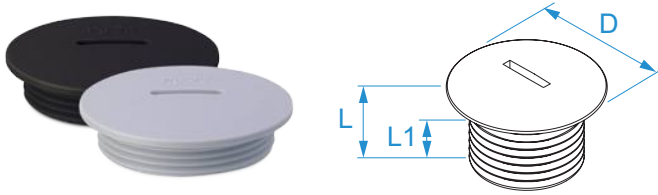
** file n° E171361

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD · IP56 · STOP-ENDS
MATERIAL: polystyrene

OPERATING TEMPERATURE: from -25 °C to +60 °C

OPERATING TEMPERATURE FOR SHORT PERIODS: 80

ASSEMBLY: tighten on a flat and smooth surface


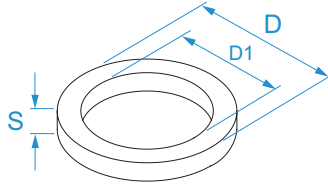
Code	Color	PG thread size (DIN40430)	D (mm)	L (mm)	L1 (mm)	
4596	Grey RAL 7035	PG 7	15	8	6	100/100
4596N	Black RAL 9005		15	8	6	100/100
4597	Grey RAL 7035	PG 9	19	9	6	100/100
4597N	Black RAL 9005		19	9	6	100/100
4598	Grey RAL 7035	PG 11	22	9	6	100/100
4598N	Black RAL 9005		22	9	6	100/100
4599	Grey RAL 7035	PG 13.5	25	9,5	6	100/100
4599N	Black RAL 9005		25	9,5	6	100/100
4600	Grey RAL 7035	PG 16	27	9,5	6	100/100
4600N	Black RAL 9005		27	9,5	6	100/100
4601	Grey RAL 7035	PG 21	33	11	8	100/100
4601N	Black RAL 9005		33	11	8	100/100
4602	Grey RAL 7035	PG 29	44	12	8	50/50
4602N	Black RAL 9005		44	12	8	50/50
4603	Grey RAL 7035	PG 36	55	15	10	25/25
4603N	Black RAL 9005		55	15	10	25/25
4604	Grey RAL 7035	PG 42	62	16	10	25/25
4604N	Black RAL 9005		62	16	10	25/25
4605	Grey RAL 7035	PG 48	69	16	12	25/25
4605N	Black RAL 9005		69	16	12	25/25

IP56

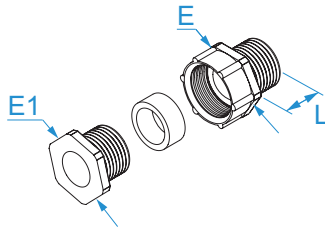
ACCESSORIES FOR NYLON CABLE GLANDS: PG THREAD - FLAT GASKETS

MATERIAL: EPDM, 60 Shore A

OPERATING TEMPERATURE: from -40 °C to +140 °C



Code	For thread	D (mm)	D1 (mm)	S (mm)	
4907G	PG 7	16,5	12,5	2	100/500
4909G	PG 9	19	15,2	2	100/500
4911G	PG 11	22,5	18,6	2	100/500
4913G	PG 13.5	25	20,4	2	100/500
4916G	PG 16	27	22,5	2	100/500
4921G	PG 21	33,5	28,3	3	100/500
4929G	PG 29	43,5	37	3	100/500
4936G	PG 36	55	47	3	100/500
4942G	PG 42	63	54	3	100/100
4948G	PG 48	69	59,3	3	100/100

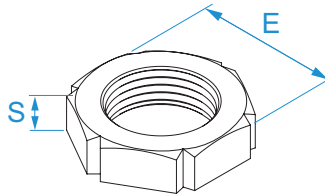
NYLON CABLE GLANDS · GAS THREAD · IP54 · STANDARD

MATERIAL: polyamide (PA 6)

SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -20 °C to +90 °C

ASSEMBLY: tighten on a flat and smooth surface

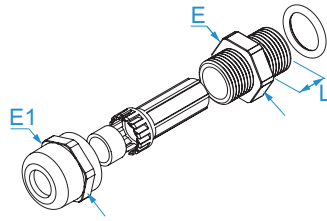
Code	Color	Gas thread (ISO228/1) (")	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
3451	Grey RAL 7035	G 3/8"	7 - 10	7,5	21	19	100/100
3452	Grey RAL 7035	G 1/2"	11 - 13	9	25	23	100/100
3453	Grey RAL 7035	G 5/8"	13,5 - 15	10	27	25	100/100
3454	Grey RAL 7035	G 3/4"	16 - 18	10,5	30	29	100/100
3455	Grey RAL 7035	G 1"	19 - 22	12	38	36	50/50

IP54
ACCESSORIES FOR NYLON CABLE GLANDS: GAS THREAD · HEXAGONAL LOCKNUTS

MATERIAL: polyamide (PA 6)

SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -20 °C to +90 °C

Code	Color	Gas thread (ISO228/1) (")	E wrench (nut)	S (mm)	
3461	Grey RAL 7035	G 3/8"	22	5,5	100/100
3462	Grey RAL 7035	G 1/2"	27	5,5	100/100
3463	Grey RAL 7035	G 5/8"	30	6	100/100
3464	Grey RAL 7035	G 3/4"	32	6,5	100/100
3465	Grey RAL 7035	G 1"	39	7,5	50/50

BRASS CABLE GLANDS · METRIC THREAD · IP68 · STANDARD


MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -40 °C to +100 °C

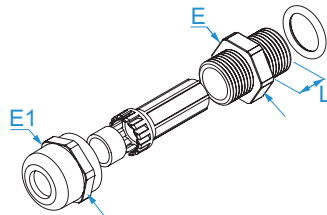
INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

CAGE IN: polyamide (PA 6.6)

Code	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2512	M 12 x 1.5	3 - 6,5	6	14	14	100/100
2517	M 16 x 1.5	4 - 8	7	18	18	100/100
2520	M 20 x 1.5	6 - 12	9	22	22	100/100
2525	M 25 x 1.5	10 - 14	9	27	24	100/100
2532	M 32 x 1.5	15 - 22	10	34	34	40/40
2540	M 40 x 1.5	18 - 25	10	45	45	20/20
2550	M 50 x 1.5	32 - 38	10	58	58	12/12
2563	M 63 x 1.5	37 - 44	12	68	64	7/7


IP68
BRASS CABLE GLANDS · METRIC THREAD · IP68 · WITH LONG THREAD


MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -40 °C to +100 °C

INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A

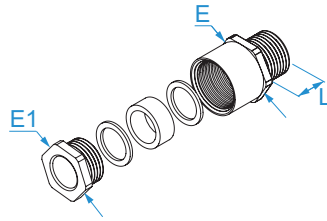
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

CAGE IN: polyamide (PA 6.6)

Code	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2512L	M 12 x 1.5	3 - 6,5	10	14	14	25/25
2517L	M 16 x 1.5	4 - 8	10	18	18	25/25
2520L	M 20 x 1.5	6 - 12	10	22	22	25/25
2525L	M 25 x 1.5	10 - 14	12	27	24	25/25
2532L	M 32 x 1.5	15 - 22	14	34	34	10/10
2540L	M 40 x 1.5	18 - 25	15	45	45	5/5
2550L	M 50 x 1.5	32 - 38	15	58	58	5/5
2563L	M 63 x 1.5	37 - 44	15	68	64	5/5


IP68

BRASS CABLE GLANDS · METRIC THREAD · IP54 · STANDARD


MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -20 °C to +70 °C

INNER GASKET: NBR (nitrile rubber), 70 Shore A

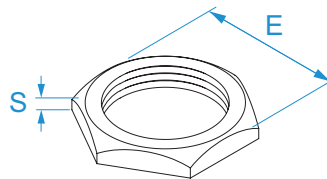
ASSEMBLY: tighten on a flat and smooth surface

Code	Metric thread size (EN60423)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2812	M 12 x 1.5	4 - 6	5	14	13	100/100
2816	M 16 x 1.5	8 - 10	6	17	15	100/100
2820	M 20 x 1.5	10 - 12	7	22	20	50/50
2825	M 25 x 1.5	17 - 19	8,5	30	28	50/50
2832	M 32 x 1.5	19 - 22	9	35	33	50/50
2840	M 40 x 1.5	26 - 30	10,2	45	42	25/25
2850	M 50 x 1.5	39 - 41	10	57	54	10/10
2863	M 63 x 1.5	43 - 45	12	64	60	10/10

ACCESSORIES FOR BRASS CABLE GLANDS: METRIC THREAD · HEXAGONAL LOCKNUTS

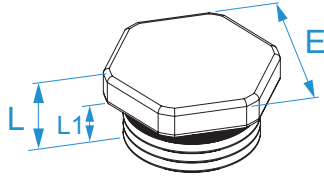
MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -40 °C to +100 °C



Code	Metric thread size (EN60423)	E wrench (nut)	S (mm)	
2712	M 12 x 1.5	15	2,8	100/100
2716	M 16 x 1.5	19	3	100/100
2720	M 20 x 1.5	24	3,2	100/100
2725	M 25 x 1.5	30	3,5	100/100
2732	M 32 x 1.5	37	4	50/50
2740	M 40 x 1.5	46	5	25/25
2750	M 50 x 1.5	60	5,5	25/25
2763	M 63 x 1.5	70	5,7	10/10

ACCESSORIES FOR BRASS CABLE GLANDS: METRIC THREAD · IP68 · STOP-ENDS




MATERIAL: nickel-plated brass

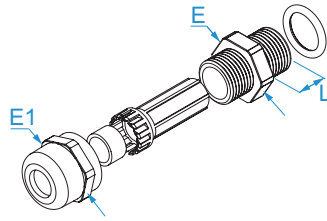
OPERATING TEMPERATURE: from -40 °C to +100 °C

O-RING: NBR (nitrile rubber), 70 Shore A

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	Metric thread size (EN60423)	L (mm)	L1 (mm)	E wrench (nut)	
2612	M 12 x 1.5	8	5	14	100/3500
2616	M 16 x 1.5	9	6	18	100/2500
2620	M 20 x 1.5	10	7	22	100/1200
2625	M 25 x 1.5	10	7	28	100/800
2632	M 32 x 1.5	12	8	36	100/400
2640	M 40 x 1.5	14	9	45	100/300
2650	M 50 x 1.5	15	9	55	50/150
2663	M 63 x 1.5	16	10	70	50/100

IP68

BRASS CABLE GLANDS · PG THREAD · IP68 · STANDARD


MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -40 °C to +100 °C

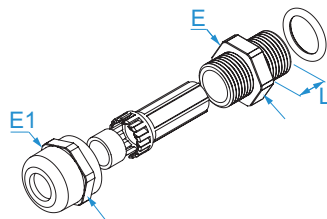
INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A

ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

CAGE IN: polyamide (PA 6.6)

Code	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2507	PG 7	3 - 6,5	6	14	14	100/100
2509	PG 9	4 - 8	7	18	18	100/100
2511	PG 11	5 - 10	7	20	20	100/100
2513	PG 13.5	6 - 12	8	22	22	100/100
2516	PG 16	10 - 14	8	24	24	100/100
2521	PG 21	13 - 18	9	30	30	50/50
2529	PG 29	18 - 25	10	40	40	25/25
2536	PG 36	25 - 32	10	50	50	12/12
2542	PG 42	32 - 38	12	58	58	10/10
2548	PG 48	37 - 44	12	64	64	7/7


IP68
BRASS CABLE GLANDS · PG THREAD · IP68 · WITH LONG THREAD


MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -40 °C to +100 °C

INNER GASKET AND O-RING: NBR (nitrile rubber), 70 Shore A

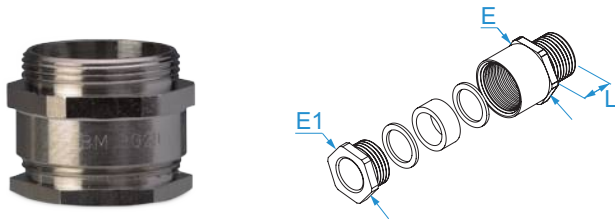
ACCORDING TO STD.: EN 62444:2013

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

CAGE IN: polyamide (PA 6.6)

Code	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2507L	PG 7	3 - 6,5	10	14	14	25/25
2509L	PG 9	4 - 8	10	18	18	25/25
2511L	PG 11	5 - 10	10	20	20	25/25
2513L	PG 13.5	6 - 12	10	22	22	25/25
2516L	PG 16	10 - 14	10	24	24	25/25
2521L	PG 21	13 - 18	12	30	30	25/25
2529L	PG 29	18 - 25	12	40	40	10/10
2536L	PG 36	25 - 32	15	50	50	5/5
2542L	PG 42	32 - 38	15	58	58	5/5
2548L	PG 48	37 - 44	15	64	64	5/5


IP68

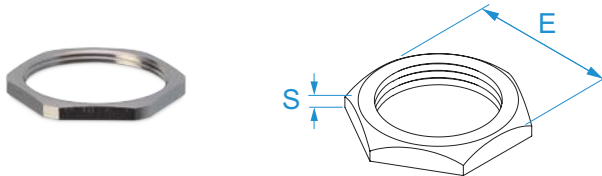
BRASS CABLE GLANDS · PG THREAD · IP54 · STANDARD

MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -20 °C to +70 °C

INNER GASKET: NBR (nitrile rubber), 70 Shore A

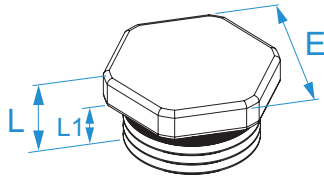
ASSEMBLY: tighten on a flat and smooth surface

Code	PG thread size (DIN40430)	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2596	PG 7	4 - 6	5	14	13	100/100
2597	PG 9	8 - 10	6	17	15	100/100
2598	PG 11	8 - 10	6	20	18	100/100
2599	PG 13.5	10 - 12	6,5	22	20	50/50
2600	PG 16	12 - 14	6,5	24	22	50/50
2601	PG 21	17 - 19	7	30	28	50/50
2602	PG 29	26 - 28	8	40	37	50/50
2603	PG 36	33 - 35	9	50	47	20/20
2604	PG 42	39 - 41	10	57	54	5/5
2605	PG 48	43 - 45	10	64	60	5/5

ACCESSORIES FOR BRASS CABLE GLANDS: PG THREAD · HEXAGONAL LOCKNUTS

MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -40 °C to +100 °C

Code	PG thread size (DIN40430)	E wrench (nut)	S (mm)	
2696	PG 7	15	2,8	100/100
2697	PG 9	18	3	100/100
2698	PG 11	21	3	100/100
2699	PG 13.5	23	3	100/100
2700	PG 16	26	3,25	100/100
2701	PG 21	32	3,5	100/100
2702	PG 29	42	4	100/100
2703	PG 36	51	5	50/50
2704	PG 42	60	5	10/10
2705	PG 48	65	5,5	10/10


ACCESSORIES FOR BRASS CABLE GLANDS: PG THREAD · IP68 · STOP-ENDS


MATERIAL: nickel-plated brass

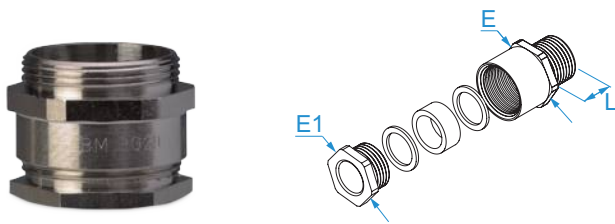
OPERATING TEMPERATURE: from -40 °C to +100 °C

O-RING: NBR (nitrile rubber), 70 Shore A

ASSEMBLY: do not remove or move the gasket; tighten on a flat and smooth surface.

Code	PG thread size (DIN40430)	L (mm)	L1 (mm)	E wrench (nut)	
2796	PG 7	8	5	14	100/3500
2797	PG 9	9	6	17	100/2500
2798	PG 11	9	6	20	100/2000
2799	PG 13.5	10	7	22	100/1200
2800	PG 16	10	7	24	100/1000
2801	PG 21	11	7	30	100/500
2802	PG 29	12	8	40	100/300
2803	PG 36	15	9	50	50/150
2804	PG 42	16	10	60	50/100
2805	PG 48	16	10	65	25/100

IP68

BRASS CABLE GLANDS · GAS THREAD · IP54 · STANDARD

MATERIAL: nickel-plated brass

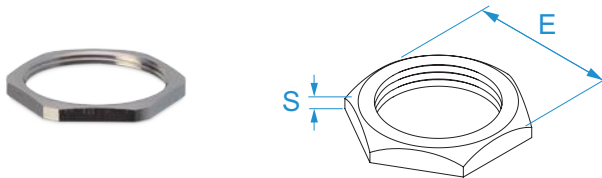
OPERATING TEMPERATURE: from -20 °C to +70 °C

INNER GASKET: NBR (nitrile rubber), 70 Shore A

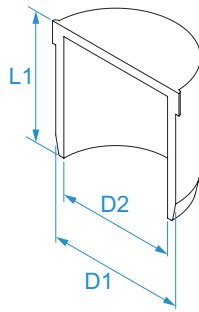
ASSEMBLY: tighten on a flat and smooth surface

Code	Gas thread (ISO228/1) (")	Ø cable (mm)	L (mm)	E wrench (nut)	E1 wrench (locknut)	
2450	G 1/4"	4 - 6	5	14	13	100/100
2451	G 3/8"	8 - 10	6	17	15	100/100
2452	G 1/2"	10 - 12	7	22	20	100/100
2453	G 5/8"	12 - 14	7,5	24	22	100/100
2454	G 3/4"	17 - 19	8,5	30	28	100/100
2455	G 1"	19 - 22	9	35	33	50/50
2456	G 1 1/8"	26 - 28	10,5	40	37	50/50
2457	G 1" 1/4"	26 - 30	10,2	45	42	25/25
2458	G 1" 1/2"	33 - 35	12	50	47	20/20
2459	G 2"	43 - 45	12	64	60	20/20
24592	G 2 1/2"	55 - 57	12	80	80	3/3
24593	G 3"	67 - 69	20	95	95	3/3

ACCESSORIES FOR BRASS CABLE GLANDS: GAS THREAD · HEXAGONAL LOCKNUTS
MATERIAL: nickel-plated brass

OPERATING TEMPERATURE: from -20 °C to +70 °C


Code	Gas thread (ISO228/1) (")	E wrench (nut)	S (mm)	
2460	G 1/4"	15	2,8	100/100
2461	G 3/8"	19	3,2	100/100
2462	G 1/2"	24	3,75	100/100
2463	G 5/8"	26	3,75	100/100
2464	G 3/4"	30	4	100/100
2465	G 1"	37	4,5	50/50
2466	G 1 1/8"	42	5	50/50
2467	G 1" 1/4"	46	5	25/25
2468	G 1" 1/2"	54	5,5	20/20
2469	G 2"	65	5,7	20/20
24692	G 2 1/2"	80	7	5/5
24693	G 3"	95	8	10/10

ACCESSORIES FOR NYLON CABLE GLANDS: IP68 STOP-ENDS

MATERIAL: red polyamide

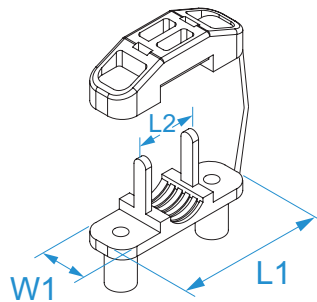
OPERATING TEMPERATURE: from -40 °C to +100 °C

APPLICATIONS: suitable to close IP68 nylon and brass cable gland holes

ASSEMBLY: insert the plug with the end-stop wings on the cable gland gasket and tighten

TIGHTENING TORQUE: 1N/m

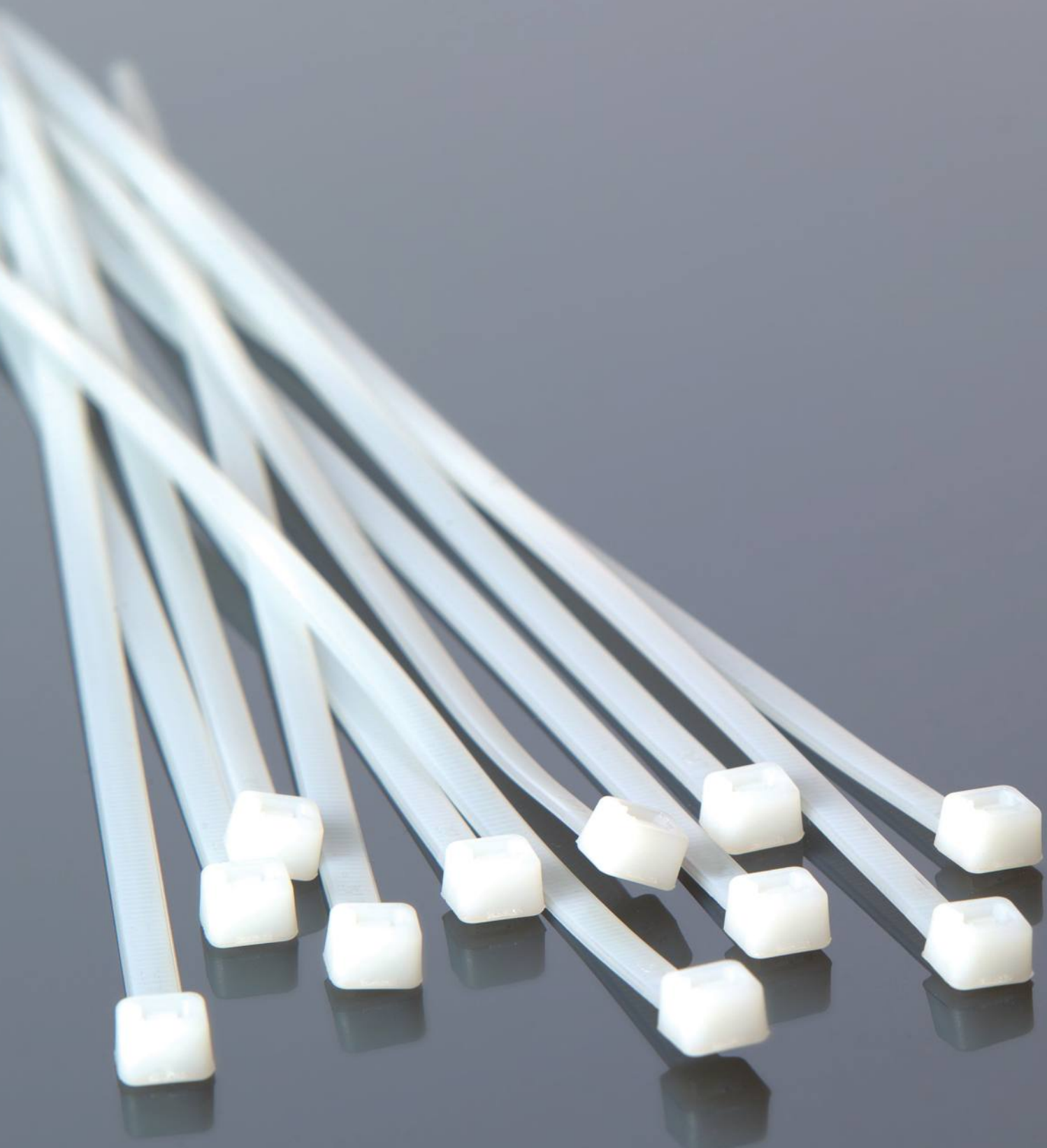
Code	D1 (mm)	D2 (mm)	L1 (mm)	Suitable for cable glands with thread Metric	Suitable for cable glands with thread PG	
4206	6	2,8	16	M12 M16 M20	PG7 PG9 PG11 PG13.5	50/50
4213	13	8,5	22	M25	PG16 PG21	50/50
4220	20	14,5	22	M32 M40	PG29	25/25
4228	28	22	30		PG36	25/25
4238	38	32	35	M50 M63	PG42 PG48	10/10

IP68
CABLE CLAMPS

MATERIAL: black UL 94 V2 polyamide (PA 6.6)

OPERATING TEMPERATURE: 125 °C

Code	L1 (mm)	L2 (mm)	W1 (mm)	
M932	44,3	14,6	14,5	100/100

**HALOGEN
FREE**





CABLE-TIES

NYLON CABLE-TIES	pag. 192
VELCRO CABLE-TIES	pag. 203
STAINLESS STEEL CABLE-TIES	pag. 204

NYLON CABLE-TIES - STANDARD



MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
B0824	2,5	80	14	3	80	100/5000
B1025		100	20,5	3		100/5000
B1025M		100	20,5	3		1000/5000
B1225		120	27	3		100/4000
B1225M		120	27	3		1000/5000
B1625		160	40	3		100/4000
B1625M		160	40	3		1000/4000
B2025		200	52,5	3		100/3000
B2025M		200	52,5	3		1000/3000
B1436		3,6	140	33		3
B1436M	140		33	3	1000/2500	
B2036	200		52,5	3	100/2000	
B2036M	200		52,5	3	1000/2000	
B2936	300		106	3	100/1500	
B2936M	300		106	3	1000/1500	
B3736	370	105	3	100/4000		
B1248	4,6	120	24	3	220	100/2000
B1648		160	36	3		100/1500
B1648M		160	36	3		1000/1500
B1948		188	46	3		100/1500
B1948M		188	46	3		1000/1500
B2048		200	50	3		100/1500
B2048M		200	50	3		1000/1500
B2548		250	65	3		100/1300
B2548M		250	65	3		1000/1300
B3048		300	81	3		100/1000
B3048M	300	81	3	1000/1000		
B3748	370	103,5	3	100/3000		
B3948	390	110	3	100/2500		
B4348	430	122,5	3	100/2000		
B5348	530	160	3	100/1000		
B1576	7,6	150	24	6	550	100/1000
B2076		200	51	6		100/800
B2976		300	83	6		100/600
B3776		370	103,5	6		100/1500
B4576		450	130,5	6		100/2500
B5476		540	159	6		100/500
B7576		750	226	6		100/100
B4390	9	430	130,5	9	100/100	
B5390	550	163,5	9	100/100		
B7190	8,8	710	195	9	800	100/100
B7890		780	235,5	9		100/100
B8190		810	245	9		100/100
B1090	9	1020	295	9	800	100/100
B1290		1220	375,5	9		100/100
B1590		1530	460	9		100/100



file n° E 223175



NYLON CABLE-TIES · UV-RESISTANT STANDARD



MATERIAL: polyamide (PA 6.6) + carbon black

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
N0824	2,5	80	14	3	80	100/8000
N0824M		80	14	3		1000/8000
N1025		100	20,5	3		100/5000
N1025M		100	20,5	3		1000/5000
N1225		120	27	3		100/5000
N1625		160	40	3		100/4000
N1625M		160	40	3		1000/4000
N2025		200	52,5	3		100/3000
N1436	3,6	140	33	3	180	100/2500
N1436M		140	33	3		1000/2500
N2036		200	52,5	3		100/2000
N2936		300	106	3		100/1500
N2936M		300	106	3		1000/1500
N3736		370	105	3		100/4000
N1248	4,6	120	24	3	220	100/2000
N1648		160	36	3		100/1500
N1948		188	46	3		100/1500
N2048		200	50	3		100/1500
N2048M		200	50	3		1000/1500
N2548		250	65	3		100/1300
N3048		300	81	3		100/1000
N3048M		300	81	3		1000/1000
N3748		370	103,5	3		100/3000
N3948		390	110	3		100/2500
N4348	430	122,5	3	100/1500		
N5348	530	160	3	100/100		
N1576	7,6	150	24	6	550	100/1000
N2076		200	51	6		100/800
N2976		300	83	6		100/600
N3776		370	103,5	6		100/1000
N4576		450	130,5	6		100/100
N5476		540	159	6		100/100
N7576		750	226	6		100/100
N4390	9	430	130,5	9	800	100/100
N5390	550	163,5	9	100/100		
N7190	8,8	710	195	9		100/100
N7890		780	235,5	9		100/100
N8190	9	810	245	9		100/100
N1090		1020	295	9		100/100
N1290		1220	375,5	9		100/100
N1590	1530	460	9	100/100		



file n° E 223175



NYLON CABLE-TIES · SELF-EXTINGUISHING UL94-V0



MATERIAL: polyamide (PA 6.6)

COLOR: white

INSULATION SELF-EXTINGUISHING: UL 94 V0

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
B1025V0	2,5	100	20,5	3	80	100/5000
B1536V0	3,6	150	36	3,5	180	100/2500
B2036V0		200	52,5	3,5		100/2000
B2048V0	4,8	200	49,5	3,5	230	100/1500
B3048V0		300	81	3,5		100/1000
B3848V0	7,6	370	106,7	3,5	540	100/2500
B3876V0		370	106,7	8,5		100/1000



NYLON CABLE-TIES · DETECTABLE



MATERIAL: polyamide (PA 6.6) + metal particles

COLOR: blue

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BX1025	2,5	100	20,5	3	80	100/5000
BX1536	3,6	150	36	3,5	180	100/2500
BX2036		200	52,5	3,5		100/2000
BX2048	4,8	200	49,5	3,5	230	100/1500
BX3048		300	81	3,5		100/1000
BX3848	7,6	370	106,7	3,5	540	100/2500
BX3876		370	106,7	8,5		100/1000



NYLON CABLE-TIES · WITH STEEL LOCKING PAW


MATERIAL: polyamide (PA 6.6) + steel

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BL1025	2,5	100	20,5	3	180	100/5000
BL2025		200	52,5	3		100/3000
BL1436	3,6	140	33	3,5	250	100/2500
BL2048		200	49,5	3,5		100/1500
BL3048	4,8	300	81	3,5	360	100/1000
BL3748		370	103,5	3,5		100/3000
BL3776		370	103,5	8,5		780


UV-RESISTANT NYLON CABLE-TIES · WITH STEEL LOCKING PAW


MATERIAL: polyamide (PA 6.6) + carbon black + steel

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
NL1025	2,5	100	20,5	3	180	100/5000
NL2025		200	52,5	3		100/3000
NL1436	3,6	140	33	3,5	250	100/2500
NL2048		200	49,5	3,5		100/1500
NL3048	4,8	300	81	3,5	360	100/1000
NL3748		370	103,5	3,5		100/3000
NL3776		370	103,5	8,5		780



NYLON CABLE-TIES · REUSABLE



MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BR1576	7,6	150	40	10	230	100/1000
BR2076		200	55	10		100/500
BR3076		300	82	10		100/500



file n° E 223175



NYLON CABLE-TIES · WITH MOUNTING HOLE



MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Fixing hole Ø (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BH1125	2,5	110	3	19	3	80	100/3000
BH2048*	4,8	200	4,8	49,8	3	230	100/1000
BH3076*	7,6	305	6,1	78,7	8	550	100/1500



* file n° E 223175



NYLON CABLE-TIES · PUSH MOUNT


MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

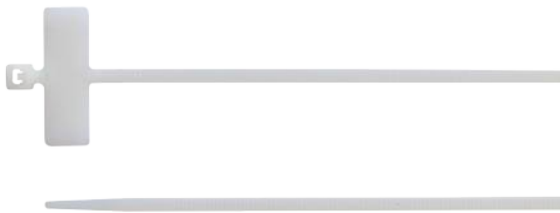
CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Fixing hole Ø (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BP1536	3,6	155	6	37,9	3,5	180	100/2500
BP2048*	4,8	200	8	50,8	3,5	230	100/1500



* file n° E 223175


NYLON CABLE-TIES · WITH CROSSWISE MARKING PLATE


MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Plate size (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BT21025*	2,5	100	25.4 x 8	22	5,5	80	100/1500
BT22025		200	25.4 x 8	53,5	5,5		100/2000



* file n° E 223175



NYLON CABLE-TIES · WITH LENGTHWISE MARKING PLATE



MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Plate size (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BT12248	4,8	190	13 x 27	51	3,5	230	100/1300



NYLON CABLE-TIES · WITH EXTERNAL MARKING PLATE



MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Plate size (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
BT11125	2,5	110	20 x 9	22	3	80	100/2500



UV-RESISTANT NYLON CABLE-TIES - FOR HEAVY LOADS


MATERIAL: polyamide (PA 6.6) + carbon black

COLOR: black

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN), type 21 (UL)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
N2412	12,4	230	57	9	1200	100/100
N4912		480	136,5	9		100/100
N7412		730	216,1	9		100/100
N8912		880	263,9	9		100/100
N1012		1000	305	9		100/100



file n° E 223175


NYLON CABLE TIES UV RESISTANT - IMPACT RESISTANT


MATERIAL: polyamide (PA 6.6) + carbon black

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 1 (EN)

ASSEMBLY: open the package just before use

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
N1890	9	180	40	20	400	100/2000
N2690	9	265	62	20	540	100/1400
N3690		360	93	20		100/500



ACCESSORIES FOR NYLON CABLE-TIES - ONE WAY CABLE TIE MOUNTS



MATERIAL: polyamide (PA 6.6)

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	
B0905	3,6	15,2 x 9,4	6,8	3,3	3	100/3000
B0906	9	22 x 16,2	10,8	5,2	5	100/1000

HALOGEN FREE

ACCESSORIES FOR NYLON CABLE-TIES - ONE WAY CABLE TIE MOUNTS - UV RESISTANT



MATERIAL: polyamide (PA 6.6) + carbon black

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	
N0905	3,6	15,2 x 9,4	6,8	3,3	3	100/3000
N0906	9	22 x 16,2	10,8	5,2	5	100/1000

HALOGEN FREE

UV RESISTANT

ACCESSORIES FOR NYLON CABLE-TIES - 2-WAY CABLE TIE MOUNTS


MATERIAL: polyamide (PA 6.6) + adhesive

COLOR: natural

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	Type of mount	
B0901	3,6	19 x 19	5,4	3,3	3	adhesive	100/1500
B0902*	4,8	28 x 28	7	5,5	5	adhesive	100/800
B0903*			5,8			screw	100/1000



* file n° E 223175


ACCESSORIES FOR NYLON CABLE-TIES - 2-WAY CABLE TIE MOUNTS - UV RESISTANT


MATERIAL: polyamide (PA 6.6) + adhesive

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Height (mm)	Fixing hole Ø (mm)	Fixing screw Ø (mm)	Type of mount	
N0901	3,6	19 x 19	5,4	3,3	3	adhesive	100/1500
N0902*	4,8	28 x 28	7	5,5	5	adhesive	100/800
N0903*			5,8			screw	100/1000



* file n° E 223175



ACCESSORIES FOR NYLON CABLE-TIES - WALL PLUG FIXING BRACKET - UV RESISTANT



MATERIAL: polyamide (PA 6.6) + carbon black

COLOR: black

INSULATION SELF-EXTINGUISHING: UL 94 V2

OPERATING TEMPERATURE: from -40 °C to +85 °C

MINIMUM INSTALLATION TEMPERATURE: -10 °C

CHEMICAL RESISTANCE: good resistance to bases, oils, grease, chloride solvents. Limited resistance to acids. Not resistant to phenols.

Code	For cable ties with max width (mm)	Dimensions (mm)	Fixing hole Ø (mm)	
B0904	9	8,1 x 38,1	6	100/600

HALOGEN FREE

AUTOMATIC CLAMP FOR NYLON CABLE TIES



MATERIAL: structure in polymer and fiberglass, internal parts in metal

FOR CABLE TIES IN: nylon

Code	Description
1100	For cable ties with width ranging from 2.5 to 4.8 mm. Automatic tension and cut control. Equipped with tightening adjustment.

AUTOMATIC CLAMP FOR NYLON CABLE TIES



MATERIAL: metal

FOR CABLE TIES IN: nylon

Code	Description
1101	For cable ties with width ranging from 7.6 to 9 mm. Automatic tension and cut control.

VELCRO CABLE-TIES · WRAP STRAP


MATERIAL: polyethylene-polyamide (PE-PA)

COLOR: white

OPERATING TEMPERATURE: from -20 °C to +60 °C

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Tensile minimum resistance (N)	
BV2312	12,7	229	55	180	10/100
BV2319	19	229	55	220	10/100

VELCRO BANDS · WRAP STRAP

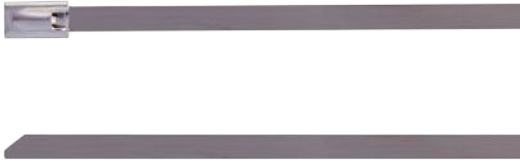

MATERIAL: polyethylene-polyamide (PE-PA)

COLOR: black

OPERATING TEMPERATURE: from -20 °C to +60 °C

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Tensile minimum resistance (N)	
NV2312	12,7	229	55	180	10/100

STAINLESS STEEL CABLE-TIES · SELF-LOCKING



MATERIAL: AISI 304 stainless steel

THICKNESS: 0,25 ± 0,05 mm

INSULATION SELF-EXTINGUISHING: not flammable

LOCKING MECHANISM: ball

OPERATING TEMPERATURE: from -60 °C to +300 °C

MINIMUM INSTALLATION TEMPERATURE: -60 °C


PLENUM RATING: AH-1

UV RAYS RESISTANCE: excellent

CHEMICAL RESISTANCE: excellent

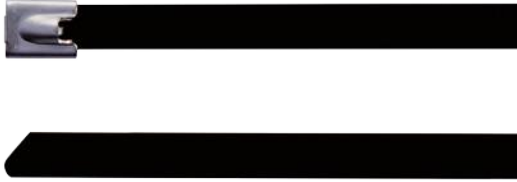
ACCORDING TO STD.: EN 62275:2015-02

CLASSIFICATION: type 2 (EN), type 2 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)	
S1345	4,6	125	38	15	890	100/100
S2045		200	61,9	15		100/100
S3045		290	90,6	15		100/100
S3745		360	112,8	15		100/100
S5245		520	163,8	15		100/100
S6845		680	214,8	15		100/100
S8445		840	265,7	15		100/100
S2079		7,9	200	61,9		15
S3079	300		90,6	15	100/100	
S3779	360		112,8	15	100/100	
S5079	520		163,8	15	100/100	
S6879	680		214,8	15	100/100	
S8479	840		265,7	15	100/100	
S1079	1010		319	15	100/100	



file n° E 223175

STAINLESS STEEL CABLE-TIES · SELF-LOCKING · WITH POLYESTER COATING


MATERIAL: AISI 304 stainless steel
THICKNESS: 0,35 ± 0,05 mm
COLOR: black
INSULATION SELF-EXTINGUISHING: not flammable
COATING: polyester
LOCKING MECHANISM: ball
OPERATING TEMPERATURE: from -40 °C to +150 °C
MINIMUM INSTALLATION TEMPERATURE: -40 °C
PLENUM RATING: AH-1
UV RAYS RESISTANCE: excellent
CHEMICAL RESISTANCE: excellent
ACCORDING TO STD.: EN 62275:2015-02
CLASSIFICATION: type 2 (EN), type 2 (UL)

Code	Width (mm)	Length (mm)	Max bundle Ø (mm)	Min bundle Ø (mm)	Tensile minimum resistance (N)			
SC1345	4,6	125	38	15	450	100/100		
SC2045		200	61,9	15		100/100		
SC3045		290	90,6	15		100/100		
SC3745		360	112,8	15		100/100		
SC5245		520	163,8	15		100/100		
SC6845		680	214,8	15		100/100		
SC8445		840	265,7	15		100/100		
SC2079		7,9	200	61,9		15	800	100/100
SC3079			290	90,6		15		100/100
SC3779			360	112,8		15		100/100
SC5079	520		163,8	15	100/100			
SC6879	680		214,8	15	100/100			
SC8479	840		265,7	15	100/100			


AUTOMATIC CLAMP FOR STAINLESS STEEL CABLE TIES


MATERIAL: metal with aluminum frame
FOR CABLE TIES IN: stainless steel

Code	Description
1105	For cable ties with width up to 7.9 mm and thickness up to 0.35 mm. Automatic cut-off once required tension is achieved. Adjustable tension dial for four levels bunding pressure.





CABLE PROTECTION

THIN WALL 2:1	pag. 208
THIN WALL 3:1	pag. 212
ACCESSORIES	pag. 213

CABLE PROTECTION - THERMO SHRINKING - THIN WALL 2:1 - REEL



TYPE: single wall

SHRINKAGE RATIO: 2:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -55°C to +125°C max (+105 °C max for transparent)

SHRINKAGE TEMPERATURE: from +70°C to +110°C

VRMS MAX: 600 V

SHEATH SELF-EXTINGUISHING GRADE: flame retardant VW-1 UL1581 (except transparent color)

HALOGEN FREE: all colours except for yellow-green and transparent

APPLICATIONS: economic and efficient insulation and protection of connections and terminals in various industries, including electronics, automotive, railway and marine. The availability of many colours makes cable identification easy.

CABLE PROTECTION

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	Icon (m)
GBS012BBI*	1,2	200	White	1,5 ± 0,2	0,65	0,36 ± 0,10	200/200
GBS012BBL*		200	Blue				
GBS012BNE*		200	Black				
GBS012BRO*		200	Red				
GBS012BTR		200	Transparent				
GBS016BBI*	1,6	200	White	2,0 ± 0,3	0,85	0,36 ± 0,10	200/200
GBS016BBL*		200	Blue				
GBS016BNE*		200	Black				
GBS016BRO*		200	Red				
GBS016BTR		200	Transparent				
GBS024BBI*	2,4	200	White	3,0 ± 0,3	1,25	0,40 ± 0,10	200/200
GBS024BBL*		200	Blue				
GBS024BNE*		200	Black				
GBS024BRO*		200	Red				
GBS024BTR		200	Transparent				
GBS032BBI*	3,2	200	White	3,5 ± 0,4	1,5	0,40 ± 0,10	200/200
GBS032BBL*		200	Blue				
GBS032BGV		200	YellowGreen				
GBS032BNE*		200	Black				
GBS032BRO*		200	Red				
GBS032BTR	200	Transparent					
GBS048BBI*	4,8	100	White	5,5 ± 0,4	2,5	0,55 ± 0,10	100/100
GBS048BBL*		100	Blue				
GBS048BGV		100	YellowGreen				
GBS048BNE*		100	Black				
GBS048BRO*		100	Red				
GBS048BTR	100	Transparent					
GBS064BBI*	6,4	100	White	6,5 ± 0,4	3	0,55 ± 0,10	100/100
GBS064BBL*		100	Blue				
GBS064BGV		100	YellowGreen				
GBS064BNE*		100	Black				
GBS064BRO*		100	Red				
GBS064BTR	100	Transparent					
GBS095BBI*	9,5	100	White	9,5 ± 0,5	4,5	0,60 ± 0,10	100/100
GBS095BBL*		100	Blue				
GBS095BGV		100	YellowGreen				
GBS095BNE*		100	Black				
GBS095BRO*		100	Red				
GBS095BTR	100	Transparent					
GBS127BBI*	12,7	100	White	13,7 ± 0,5	6,5	0,65 ± 0,10	100/100
GBS127BBL*		100	Blue				
GBS127BGV		100	YellowGreen				
GBS127BNE*		100	Black				
GBS127BRO*		100	Red				
GBS127BTR	100	Transparent					

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	(m)
GBS1908BI*	19	100	White	21,0 ± 0,5	10	0,75 ± 0,15	100/100
GBS1908BL*		100	Blue			0,75 ± 0,15	100/100
GBS1908GV		100	YellowGreen			0,75 ± 0,15	100/100
GBS1908NE*		100	Black			0,75 ± 0,15	100/100
GBS1908RO*		100	Red			0,75 ± 0,15	100/100
GBS1908TR		100	Transparent			0,75 ± 0,15	100/100
GBS2548BI*	25,4	50	White	26,0 ± 0,5	12,5	0,90 ± 0,15	50/50
GBS2548BL*		50	Blue			0,90 ± 0,15	50/50
GBS2548GV		50	YellowGreen			0,90 ± 0,15	50/50
GBS2548NE*		50	Black			0,90 ± 0,15	50/50
GBS2548RO*		50	Red			0,90 ± 0,15	50/50
GBS2548TR		50	Transparent			0,90 ± 0,15	50/50
GBS3188BI*	31,8	50	White	31,5 ± 1,0	15	0,95 ± 0,15	50/50
GBS3188BL*		50	Blue			0,95 ± 0,15	50/50
GBS3188NE		50	Black			0,95 ± 0,15	50/50
GBS3188RO*		50	Red			0,95 ± 0,15	50/50
GBS3188TR		50	Transparent			0,95 ± 0,15	50/50
GBS3808BI*	38	50	White	41,5 ± 1,0	20	1,0 ± 0,15	50/50
GBS3808BL*		50	Blue			1,0 ± 0,15	50/50
GBS3808GV		50	YellowGreen			1,0 ± 0,15	50/50
GBS3808NE*		50	Black			1,0 ± 0,15	50/50
GBS3808RO*		50	Red			1,0 ± 0,15	50/50
GBS3808TR		50	Transparent			1,0 ± 0,15	50/50
GBS5108BI	51	25	White	>50	25	1,0 ± 0,15	25/25
GBS5108BL		25	Blue			1,0 ± 0,15	25/25
GBS5108NE		25	Black			1,0 ± 0,15	25/25
GBS5108RO		25	Red			1,0 ± 0,15	25/25
GBS5108TR		25	Transparent			1,0 ± 0,15	25/25
GBS7608BI	76	25	White	>80	41	1,46 ± 0,20	25/25
GBS7608BL		25	Blue			1,46 ± 0,20	25/25
GBS7608NE		25	Black			1,46 ± 0,20	25/25
GBS7608RO		25	Red			1,46 ± 0,20	25/25
GBS7608TR		25	Transparent			1,46 ± 0,20	25/25
GBS1028BI	102	25	White	>100	51	1,46 ± 0,20	25/25
GBS1028BL		25	Blue			1,46 ± 0,20	25/25
GBS1028NE		25	Black			1,46 ± 0,20	25/25
GBS1028RO		25	Red			1,46 ± 0,20	25/25
GBS1028TR		25	Transparent			1,46 ± 0,20	25/25

THERMO SHRINKING CABLE PROTECTION - THIN WALL 2:1 - IN MINIBOX



SHRINKAGE RATIO: 2:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -55°C to +125°C max

SHRINKAGE TEMPERATURE: from +70°C to +110°C

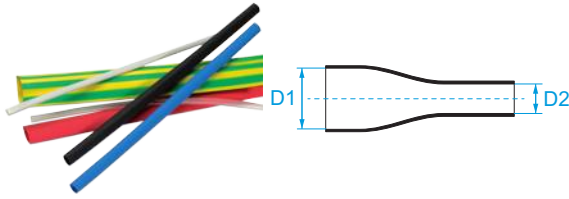
VRMS MAX: 600 V

SHEATH SELF-EXTINGUISHING GRADE: flame retardant (VW-1 UL1581)

HALOGEN FREE: yellow-green

APPLICATIONS: economic and efficient insulation and protection of connections and terminals in various industries, including electronics, automotive, railway and marine. The availability of many colours makes cable identification easy.

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBS016MBL*	1,6	12	Blue	2,0 ± 0,3	0,85	0,36 ± 0,10	1/1
GBS016MNE*		12	Black			0,36 ± 0,10	1/1
GBS016MRO*		12	Red			0,36 ± 0,10	1/1
GBS024MBL*	2,4	11	Blue	3,0 ± 0,3	1,25	0,40 ± 0,10	1/1
GBS024MNE*		11	Black			0,40 ± 0,10	1/1
GBS024MRO*		11	Red			0,40 ± 0,10	1/1
GBS032MBL*	3,2	11	Blue	3,5 ± 0,4	1,5	0,40 ± 0,10	1/1
GBS032MGV		11	YellowGreen			0,40 ± 0,10	1/1
GBS032MNE*		11	Black			0,40 ± 0,10	1/1
GBS032MRO*		11	Red			0,40 ± 0,10	1/1
GBS048MBL*	4,8	10	Blue	5,5 ± 0,4	2,5	0,55 ± 0,10	1/1
GBS048MGV		10	YellowGreen			0,55 ± 0,10	1/1
GBS048MNE*		10	Black			0,55 ± 0,10	1/1
GBS048MRO*		10	Red			0,55 ± 0,10	1/1
GBS064MBL*	6,4	9	Blue	6,5 ± 0,4	3	0,55 ± 0,10	1/1
GBS064MGV		9	YellowGreen			0,55 ± 0,10	1/1
GBS064MNE*		9	Black			0,55 ± 0,10	1/1
GBS064MRO*		9	Red			0,55 ± 0,10	1/1
GBS095MBL*	9,5	7	Blue	9,5 ± 0,5	4,5	0,60 ± 0,10	1/1
GBS095MGV		7	YellowGreen			0,60 ± 0,10	1/1
GBS095MNE*		7	Black			0,60 ± 0,10	1/1
GBS095MRO*		7	Red			0,60 ± 0,10	1/1
GBS127MBL*	12,7	6	Blue	13,7 ± 0,5	6,5	0,65 ± 0,10	1/1
GBS127MGV		6	YellowGreen			0,65 ± 0,10	1/1
GBS127MNE*		6	Black			0,65 ± 0,10	1/1
GBS127MRO*		6	Red			0,65 ± 0,10	1/1
GBS190MBL*	19	5	Blue	21,0 ± 0,5	10	0,75 ± 0,15	1/1
GBS190MGV		5	YellowGreen			0,75 ± 0,15	1/1
GBS190MNE*		5	Black			0,75 ± 0,15	1/1
GBS190MRO*		5	Red			0,75 ± 0,15	1/1
GBS254MBL*	25,4	3,5	Blue	26,0 ± 0,5	12,5	0,90 ± 0,15	1/1
GBS254MGV		3,5	YellowGreen			0,90 ± 0,15	1/1
GBS254MNE*		3,5	Black			0,90 ± 0,15	1/1
GBS254MRO*		3,5	Red			0,90 ± 0,15	1/1

THERMO SHRINKING CABLE PROTECTION - THIN WALL 2:1 - BAR

TYPE: single wall

SHRINKAGE RATIO: 2:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -55°C to +125°C max (+105 °C max for transparent)

SHRINKAGE TEMPERATURE: from +70°C to +110°C

VRMS MAX: 600 V

SHEATH SELF-EXTINGUISHING GRADE: flame retardant VW-1 UL1581 (except transparent color)

HALOGEN FREE: all colours except for yellow-green and transparent

APPLICATIONS: economic and efficient insulation and protection of connections and terminals in various industries, including electronics, automotive, railway and marine. The availability of many colours makes cable identification easy.

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBS024SBI*	2,4	1	White	3,0 ± 0,3	1,25	0,40 ± 0,10	25/25
GBS024SBL*		1	Blue			0,40 ± 0,10	25/25
GBS024SNE*		1	Black			0,40 ± 0,10	25/25
GBS024SRO*		1	Red			0,40 ± 0,10	25/25
GBS024STR		1	Transparent			0,40 ± 0,10	25/25
GBS032SBI*	3,2	1	White	3,5 ± 0,4	1,5	0,40 ± 0,10	25/25
GBS032SBL*		1	Blue			0,40 ± 0,10	25/25
GBS032SGV		1	YellowGreen			0,40 ± 0,10	25/25
GBS032SNE*		1	Black			0,40 ± 0,10	25/25
GBS032SRO*		1	Red			0,40 ± 0,10	25/25
GBS032STR	1	Transparent	0,40 ± 0,10	25/25			
GBS048SBI*	4,8	1	White	5,5 ± 0,4	2,5	0,55 ± 0,10	10/10
GBS048SBL*		1	Blue			0,55 ± 0,10	10/10
GBS048SGV		1	YellowGreen			0,55 ± 0,10	10/10
GBS048SNE*		1	Black			0,55 ± 0,10	10/10
GBS048SRO*		1	Red			0,55 ± 0,10	10/10
GBS048STR	1	Transparent	0,55 ± 0,10	10/10			
GBS064SBI*	6,4	1	White	6,5 ± 0,4	3	0,55 ± 0,10	10/10
GBS064SBL*		1	Blue			0,55 ± 0,10	10/10
GBS064SGV		1	YellowGreen			0,55 ± 0,10	10/10
GBS064SNE*		1	Black			0,55 ± 0,10	10/10
GBS064SRO*		1	Red			0,55 ± 0,10	10/10
GBS064STR	1	Transparent	0,55 ± 0,10	10/10			
GBS095SBI*	9,5	1	White	9,5 ± 0,5	4,5	0,60 ± 0,10	10/10
GBS095SBL*		1	Blue			0,60 ± 0,10	10/10
GBS095SGV		1	YellowGreen			0,60 ± 0,10	10/10
GBS095SNE*		1	Black			0,60 ± 0,10	10/10
GBS095SRO*		1	Red			0,60 ± 0,10	10/10
GBS095STR	1	Transparent	0,60 ± 0,10	10/10			
GBS127SBI*	12,7	1	White	13,7 ± 0,5	6,5	0,65 ± 0,10	10/10
GBS127SBL*		1	Blue			0,65 ± 0,10	10/10
GBS127SGV		1	YellowGreen			0,65 ± 0,10	10/10
GBS127SNE*		1	Black			0,65 ± 0,10	10/10
GBS127SRO*		1	Red			0,65 ± 0,10	10/10
GBS127STR	1	Transparent	0,65 ± 0,10	10/10			
GBS190SBI*	19	1	White	21,0 ± 0,5	10	0,75 ± 0,15	10/10
GBS190SBL*		1	Blue			0,75 ± 0,15	10/10
GBS190SGV		1	YellowGreen			0,75 ± 0,15	10/10
GBS190SNE*		1	Black			0,75 ± 0,15	10/10
GBS190SRO*		1	Red			0,75 ± 0,15	10/10
GBS190STR	1	Transparent	0,75 ± 0,15	10/10			
GBS254SBI*	25,4	1	White	26,0 ± 0,5	12,5	0,90 ± 0,15	10/10
GBS254SBL*		1	Blue			0,90 ± 0,15	10/10
GBS254SGV		1	YellowGreen			0,90 ± 0,15	10/10
GBS254SNE*		1	Black			0,90 ± 0,15	10/10
GBS254SRO*		1	Red			0,90 ± 0,15	10/10
GBS254STR	1	Transparent	0,90 ± 0,15	10/10			

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)		
GBS380SBI*	38	1	<input type="checkbox"/> White	41,5 ± 1,0	20	1,0 ± 0,15	10/10	
GBS380SBL*		1	<input checked="" type="checkbox"/> Blue			1,0 ± 0,15		10/10
GBS380SGV		1	<input checked="" type="checkbox"/> YellowGreen			1,0 ± 0,15		10/10
GBS380SNE*		1	<input checked="" type="checkbox"/> Black			1,0 ± 0,15		10/10
GBS380SRO*		1	<input checked="" type="checkbox"/> Red			1,0 ± 0,15		10/10
GBS380STR		1	<input checked="" type="checkbox"/> Transparent			1,0 ± 0,15		10/10
GBS510SBI	51	1	<input type="checkbox"/> White	>50	25	1,0 ± 0,15	5/5	
GBS510SBL		1	<input checked="" type="checkbox"/> Blue			1,0 ± 0,15		5/5
GBS510SGV		1	<input checked="" type="checkbox"/> YellowGreen			1,0 ± 0,15		5/5
GBS510SNE		1	<input checked="" type="checkbox"/> Black			1,0 ± 0,15		5/5
GBS510SRO		1	<input checked="" type="checkbox"/> Red			1,0 ± 0,15		5/5
GBS510STR		1	<input checked="" type="checkbox"/> Transparent			1,0 ± 0,15		5/5

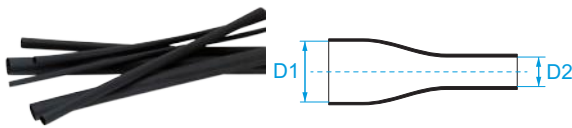


HALOGEN FREE

FLAME RETARDANT

2:1

THERMO SHRINKING CABLE PROTECTION - THIN WALL 3:1 WITH ADHESIVE - BAR



TYPE: double wall with adhesive

SHRINKAGE RATIO: 3:1

MATERIAL: polyethylene

OPERATING TEMPERATURE: from -45°C to +125°C max

SHRINKAGE TEMPERATURE: from +70°C to +125°C

VRMS MAX: 600 V

SHEATH SELF-EXTINGUISHING GRADE: flame retardant (VW-1 UL1581)

APPLICATIONS: superior insulation, watertightness and protection of connections and terminals in various industries, including electronics, automotive, railway and marine.

Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	S1 (mm)	
GBA030SNE	3	1	<input checked="" type="checkbox"/> Black	3,2	1	1,0	25/25
GBA060SNE	6	1	<input checked="" type="checkbox"/> Black	6,4	2	1,2	10/10
GBA090SNE	9	1	<input checked="" type="checkbox"/> Black	9,5	3,2	1,4	10/10
GBA120SNE	12	1	<input checked="" type="checkbox"/> Black	12,7	4,2	1,7	10/10
GBA190SNE	19	1	<input checked="" type="checkbox"/> Black	19,1	6,3	1,8	10/10
GBA240SNE	24	1	<input checked="" type="checkbox"/> Black	25,4	8,5	2,0	10/10



FLAME RETARDANT

3:1

HEAT GUN



Heat gun with three-position supply selector and electronic continuous temperature control from 50 °C to 600 °C.
Double protection against over-heating: thermostat and thermic stop.

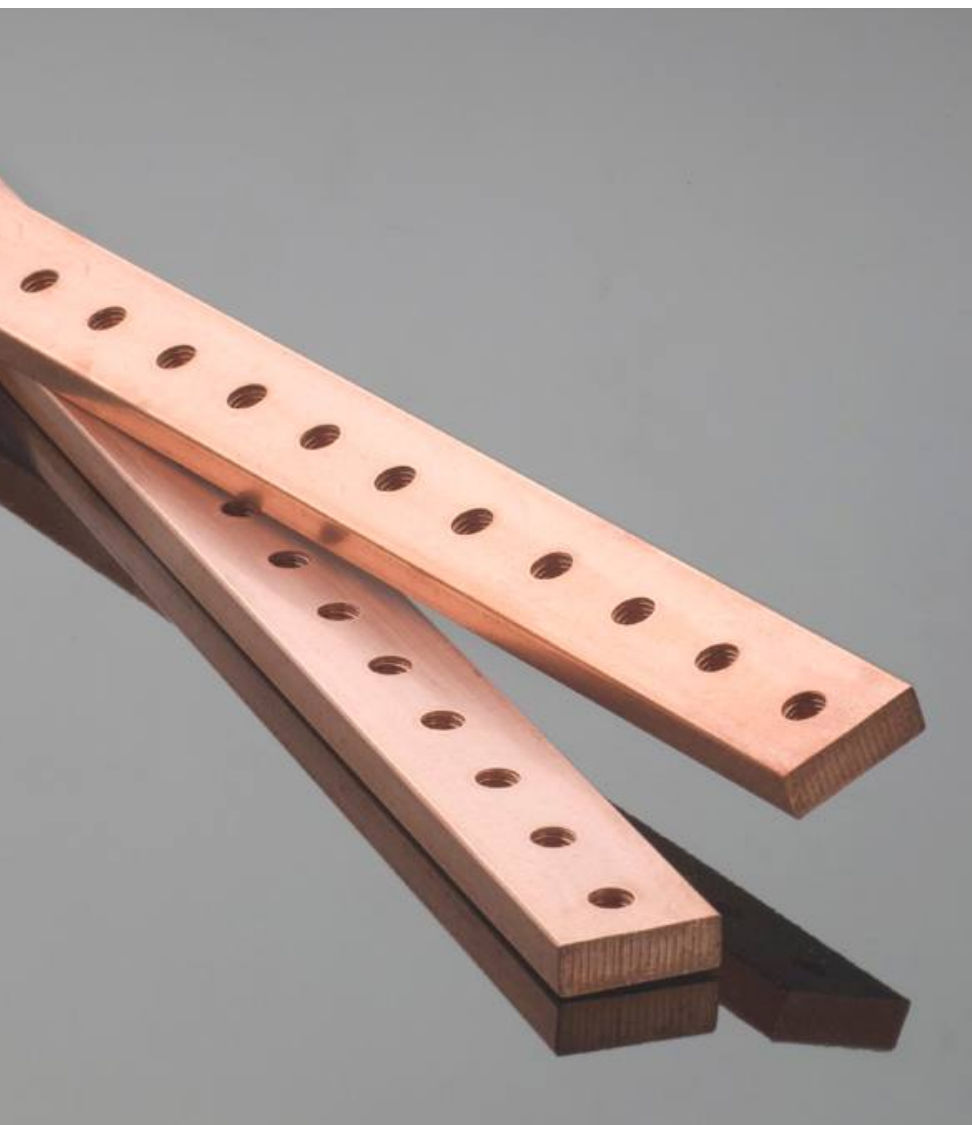
Code	Power (W)	Voltage	Weight (g)	Selector	Temperature (°C)	Air output (l/min)	
1108	2000	220-240 V, 50 Hz	650	Pos. I Pos. II Pos. III	50 50-600 50-600	150 300 500	1/1

REFLECTING NOZZLES



The reflecting nozzles channel the 1108 heat gun's hot air output, speeding up the thermo-shrinking process.

Code	Fig.	Description	Width (mm)	
11081	1	narrow nozzle	31	1/1
11082	2	wide nozzle	80	1/1



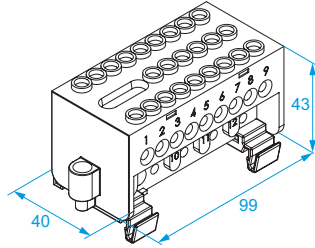


PANEL BOARDS COMPONENTS

MODULAR DISTRIBUTION BLOCKS	216
BRAIDS	219
THREADED BARS	221
INSULATORS AND SPACERS	222
SHEATHS FOR CABLE PROTECTION	225
CUTTING AND DRILLING DIN BARS	226



DISTRIBUTION BLOCK FOR GROUND CONNECTIONS



One-way distribution block with 26 inputs that can be installed by means of screws or DIN 46277/3 (EN 50022) rails.

The small size allows installation inside the small boxes usually found in buildings with existing piping. The two-level cabling system allows the wires to be easily inserted. The use of this distribution block is recommended both for connecting the conductors as an equipotential earth node and for connection to extraneous masses (metal structures, piping etc.) in the electrical facilities of medical premises.

INSULATING HOUSING: transparent polycarbonate (PC) UL 94 V0

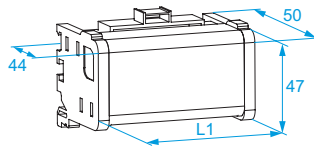
CONDUCTIVE BODY: nickel-plated brass

CAPTIVE SCREW IN: galvanized steel

MAX OPERATING TEMPERATURE: 85 °C

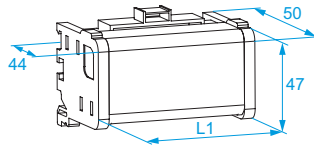
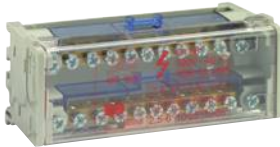
Code	Overall inputs	Inputs	Conductor section (mm ²)	Type of connection	
9926	26	2 24	16 ÷ 35 2,5 ÷ 10	↓	1/5



DISTRIBUTION BLOCKS - 2-WAYS 100 A


INSULATING HOUSING: polycarbonate (PC)
CONNECTION BARS IN: brass
SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC 69522, UL 94 V0 IEC 69521 at/up to 960 °C
RATED INSULATION VOLTAGE: 500 V
TEST VOLTAGE: 3000 V
TIGHTENING TORQUE ON THE SCREW: 2 Nm
TYPE OF MOUNT: on EN 50022 rail, via screws
ACCORDING TO STD.: EN 60947-1, EN 60998-1, EN 60998-2-1

Code	N. of 17.5 mm modules	Peak current	Inputs/ways	Conductor section flexible (mm ²)	Conductor section rigid (mm ²)	L1 (mm)	
9904	4	Icc 20	5 2	1,5 - 6 6 - 16	2,5 - 6 10 - 25	70	1/5

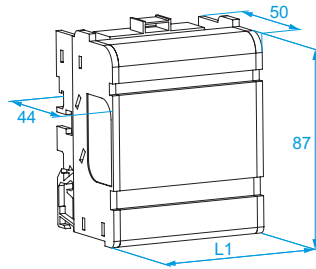

DISTRIBUTION BLOCKS - 2-WAYS 125 A


INSULATING HOUSING: polycarbonate (PC)
CONNECTION BARS IN: brass
SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC 69522, UL 94 V0 IEC 69521 at/up to 960 °C
RATED INSULATION VOLTAGE: 500 V
TEST VOLTAGE: 3000 V
TIGHTENING TORQUE ON THE SCREW: 2 Nm
TYPE OF MOUNT: on EN 50022 rail, via screws
ACCORDING TO STD.: EN 60947-1, EN 60998-1, EN 60998-2-1

Code	N. of 17.5 mm modules	Peak current	Inputs/ways	Conductor section flexible (mm ²)	Conductor section rigid (mm ²)	L1 (mm)	
9905	6	Icc 20	7 2 2	1,5 - 6 6 - 16 10 - 25	2,5 - 6 10 - 25 10 - 35	105	1/5
9906	8	Icc 18	11 2 2	1,5 - 6 6 - 16 10 - 25	2,5 - 6 10 - 25 10 - 35	140	1/5



DISTRIBUTION BLOCKS - 4-WAYS 100 A

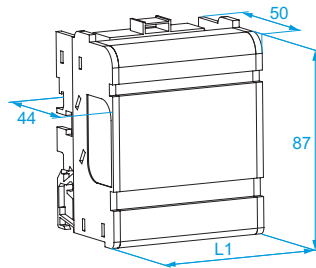


INSULATING HOUSING: polycarbonate (PC)
CONNECTION BARS IN: brass
SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC 69522, UL 94 V0 IEC 69521 at/up to 960 °C
RATED INSULATION VOLTAGE: 500 V
TEST VOLTAGE: 3000 V
TIGHTENING TORQUE ON THE SCREW: 2 Nm
TYPE OF MOUNT: on EN 50022 rail, via screws
ACCORDING TO STD.: EN 60947-1, EN 60998-1, EN 60998-2-1

Code	N. of 17.5 mm modules	Peak current	Inputs/ways	Conductor section flexible (mm ²)	Conductor section rigid (mm ²)	L1 (mm)	
9907	4	Icc 20	5 2	1,5 - 6 6 - 16	2,5 - 6 10 - 25	70	1/5



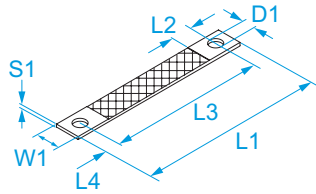
DISTRIBUTION BLOCKS - 4-WAYS 125 A



INSULATING HOUSING: polycarbonate (PC)
CONNECTION BARS IN: brass
SCREW IN: galvanized steel
INSULATION SELF-EXTINGUISHING: IEC 69522, UL 94 V0 IEC 69521 at/up to 960 °C
RATED INSULATION VOLTAGE: 500 V
TEST VOLTAGE: 3000 V
TIGHTENING TORQUE ON THE SCREW: 2 Nm
TYPE OF MOUNT: on EN 50022 rail, via screws
ACCORDING TO STD.: EN 60947-1, EN 60998-1, EN 60998-2-1

Code	N. of 17.5 mm modules	Peak current	Inputs/ways	Conductor section flexible (mm ²)	Conductor section rigid (mm ²)	L1 (mm)	
9911	6	Icc 20	7 2 2	1,5 - 6 6 - 16 10 - 25	2,5 - 6 10 - 25 10 - 35	105	1/5
9915	8	Icc 18	11 2 2	1,5 - 6 6 - 16 10 - 25	2,5 - 6 10 - 25 10 - 35	140	1/5



FLEXIBLE COPPER TWISTED PAIRS FOR EARTHING CONNECTIONS

MATERIAL: tinned copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

SINGLE WIRE: Cu-ETP EN13602

Code	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	S1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	Rated current ($\Delta T = 30\text{ }^{\circ}\text{C}$) (A)	
61015	10	(8)	17	2	150	12	130	10	9	90	25/25
61017			17	2	170	12	150	10	9	90	25/25
61020			17	2	200	12	180	10	9	90	25/25
61025			17	2	250	12	230	10	9	90	25/25
61115	16	(6)	17	2,5	150	12	130	10	9	120	25/25
61120			17	2,5	200	12	180	10	9	120	25/25
61125			17	2,5	250	12	230	10	9	120	25/25
61130			17	2,5	320	12	300	10	9	120	25/25
61135			17	2,5	350	12	330	10	9	120	25/25
61142			17	2,5	420	12	400	10	9	120	25/25
61157			17	2,5	570	12	550	10	9	120	25/25
61166	17	2,5	660	12	640	10	9	120	25/25		
61215	25	(4)	22	3	150	12	130	10	9	150	25/25
61220			22	3	200	12	180	10	9	150	25/25
61225			22	3	250	12	230	10	9	150	25/25
61230			22	3	300	12	280	10	9	150	25/25

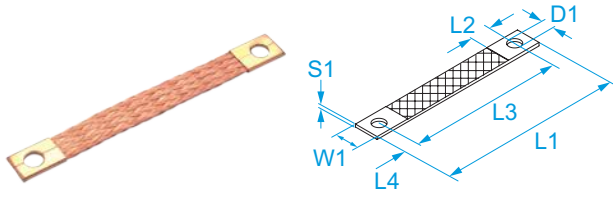
Different sizes are available on demand.


FLEXIBLE COPPER TWISTED PAIRS FOR EARTHING CONNECTIONS

MATERIAL: copper

OPERATING TEMPERATURE: from -50 °C to +150 °C

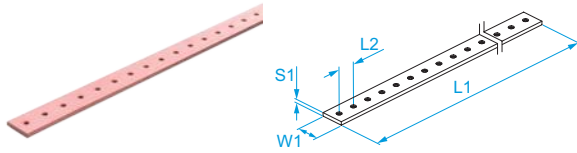
SINGLE WIRE: Cu-ETP EN13602



Code	Section (mm ²)	Section (AWG/MCM)	W1 (mm)	S1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D1 (mm)	Rated current (ΔT = 30 °C) (A)	
60015	10	(8)	17	2	150	12	130	10	9	90	25/25
60020			17	2	200	12	180	10	9	90	25/25
60025			17	2	250	12	230	10	9	90	25/25
60115	16	(6)	17	2,5	150	12	130	10	9	120	25/25
60120			17	2,5	200	12	180	10	9	120	25/25
60125			17	2,5	250	12	230	10	9	120	25/25
60130			17	2,5	320	12	300	10	9	120	25/25
60135			17	2,5	350	12	330	10	9	120	25/25
60142			17	2,5	420	12	400	10	9	120	25/25
60157	25	(4)	17	2,5	570	12	550	10	9	120	25/25
60166			17	2,5	660	12	640	10	9	120	25/25
60215			22	3	150	12	130	10	9	120	25/25
60220			22	3	200	12	180	10	9	150	25/25
60225			22	3	250	12	230	10	9	150	25/25
60230			22	3	300	12	280	10	9	150	25/25

Different sizes are available on demand.

THREADED COPPER BUSBARS



MATERIAL: electrolytic copper

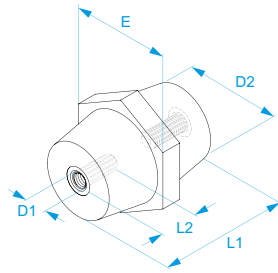
PROFILE: round edges

APPLICATIONS: power distribution, heavy duty power connections, earth/ground connections, circuit breaker, generator and power network conductors

Code	W1 (mm)	S1 (mm)	L1 (mm)	L2 (mm)	Thread	N. holes	Rated current ($\Delta T = 30\text{ }^{\circ}\text{C}$) (A)	Rated current ($\Delta T = 50\text{ }^{\circ}\text{C}$) (A)	
QB1221518	12	2	1000	18	M5	55	108	142	10/10
QB1241518		4	1000	18	M5	55	160	210	10/10
QB1242518		4	2000	18	M5	111	160	210	10/10
QB1251518		5	1000	18	M5	55	183	240	4/4
QB1551625	15	5	1000	25	M6	40	218	286	4/4
QB1552617		5	2000	17,5	M6	113	218	286	4/4
QB2051625	20	5	1000	25	M6	40	274	362	4/4
QB2052625		5	2000	25	M6	80	274	362	4/4
QB2052517		5	2000	17,5	M5	113	274	362	4/4
QB2011825		10	1000	25	M8	40	427	595	4/4
QB2541620	25	4	1000	20	M6	50	288	380	4/4
QB3052625	30	5	2000	25	M6	80	379	502	4/4
QB3011825		10	1000	25	M8	40	573	754	4/4
QB3012825		10	2000	25	M8	80	573	754	2/2
QB3251625	32	5	1000	25	M6	40	400	530	4/4

AVAILABLE ON REQUEST: make to order (dimensions and surface treatments)

POLYESTER INSULATORS (L.V.)



INSULATION MATERIAL: red polyester and fiberglass

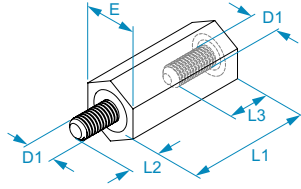
INSERT MATERIAL: galvanized steel threaded according to ISO standards

INSULATION SELF-EXTINGUISHING: UL 94 V0

OPERATING TEMPERATURE: from -40 °C to +135 °C

APPLICATIONS: support of threaded and drilled copper bars

Code	L1 (mm)	D1	L2 (mm)	E wrench (mm)	D2 (mm)	Tightening torque (Nm)	AC Voltage (kV)	DC Voltage (kV)	Tensile strength (daN)	Bending strength (daN)	
QHEP01604	16	M4	3,5	14	11	1,5	0,6	0,8	80	25	50/50
QHEP02004	20	M4	5	18	14	2,5	0,8	1,1	182	65	25/25
QHEP02006		M6	5	18	14	5	0,8	1,1	195	75	25/25
QHEP02505	25	M5	7	21	16	5	1	1,4	350	92	20/20
QHEP02506		M6	7	25	22	6	1	1,4	540	190	20/20
QHEP03006	30	M6	9	32	24	6	1,2	1,6	532	154	10/10
QHEP03008		M8	9	32	25	15	1,2	1,6	796	240	10/10
QHEP03506	35	M6	12	32	26	6	1,4	1,9	620	244	10/10
QHEP03508		M8	12	32	26	15	1,4	1,9	670	250	10/10
QHEP03510	40	M10	12	32	26	20	1,4	1,9	805	190	10/10
QHEP04006		M6	12	38	30	6	1,6	2,2	870	280	10/10
QHEP04008	40	M8	12	39	31	20	1,6	2,2	860	340	10/10
QHEP04010		M10	12	38	30	25	1,6	2,2	1054	345	10/10
QHEP04506	45	M6	12	40	32	10	1,8	2,5	990	310	10/10
QHEP04508		M8	12	40	32	20	1,8	2,5	1100	345	10/10
QHEP04510	50	M10	12	40	32	30	1,8	2,5	1220	300	10/10
QHEP05006		M6	12	46	35	10	2	2,8	1120	300	10/10
QHEP05008	50	M8	17	46	35	20	2	2,8	1500	420	10/10
QHEP05010		M10	17	46	35	30	2	2,8	1550	500	10/10
QHEP05012	60	M12	17	46	35	50	2	2,8	1511	472	10/10
QHEP06008		M8	17	50	38	20	2,4	3,3	1200	253	4/4
QHEP06010	60	M10	17	50	38	30	2,4	3,3	1570	410	4/4
QHEP06012		M12	17	50	38	50	2,4	3,3	1640	520	4/4
QHEP07010	70	M10	22	55	41	30	2,8	3,9	1720	490	4/4
QHEP07012		M12	22	55	41	50	2,8	3,9	1800	500	4/4
QHEP07512	75	M12	22	53	42	50	3	4,2	1840	540	4/4

INSULATED SPACERS (L.V.)

INSULATION MATERIAL: PBT black polyester

INSERT MATERIAL: galvanized steel male and female threaded according to ISO standards

INSULATION SELF-EXTINGUISHING: UL 94 V0

OPERATING TEMPERATURE: from -40 °C to +135 °C

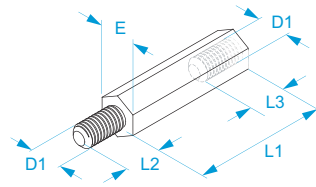
APPLICATIONS: support for different applications such as electronic board protections

Code	L1 (mm)	D1	L2 (mm)	L3 (mm)	E wrench (mm)	Tightening torque (Nm)	AC Voltage (kV)	DC Voltage (kV)	
QSCP015M4	15	M4	7	8,5	9	1	0,5	0,7	100/100
QSCP020M4	20		7	8,5	9	1,5	0,6	0,8	100/100
QSCP025M4	25		7	8,5	9	1,5	0,8	1,1	50/50
QSCP030M4	30		9	8,5	9	1,5	1	1,4	50/50
QSCP040M4	40		9	7	9	1,5	1,4	1,9	50/50
QSCP055M4	55		9	7	9	1,5	1,8	2,5	50/50
QSCP060M4	60		9	7	9	1,5	1,8	2,5	50/50
QSCP090M4	90		9	7	9	1,5	1,8	2,5	50/50
QSCP015M5	15		M5	7	8,5	13	3,5	0,5	0,7
QSCP020M5	20	7		8,5	13	3,5	0,6	0,8	100/100
QSCP025M5	25	7		8,5	13	3,5	0,8	1,1	50/50
QSCP030M5	30	7		8,5	13	3,5	1	1,4	50/50
QSCP045M5	45	7		8,5	13	3,5	1,6	2,2	50/50
QSCP055M5	55	7		8,5	13	3,5	1,8	2,5	50/50
QSCP070M5	70	7		8,5	13	3,5	1,8	2,5	50/50
QSCP085M5	85	7		8,5	13	3,5	1,8	2,5	50/50
QSCP120M5	120	7		8,5	13	3,5	1,8	2,5	50/50
QSCP015M6	15	M6	7	8,5	13	4	0,5	0,7	100/100
QSCP020M6	20		7	8,5	13	4	0,6	0,8	100/100
QSCP025M6	25		7	8,5	13	4	0,8	1,1	50/50
QSCP030M6	30		7	8,5	13	4	1	1,4	50/50
QSCP045M6	45		7	8,5	13	4	1,6	2,2	50/50
QSCP060M6	60		7	8,5	13	4	2	2,5	50/50
QSCP070M6	70		7	8,5	13	4	1,8	2,5	50/50
QSCP120M6	120		7	8,5	13	4	1,8	2,5	50/50

UNINSULATED SPACERS

MATERIAL: galvanized steel male and female threaded

APPLICATIONS: support for plates, screens and profiles



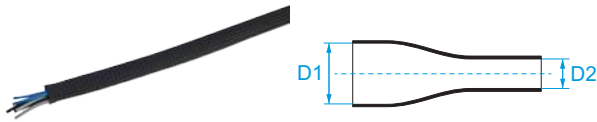
Code	L1 (mm)	D1	L2 (mm)	L3 (mm)	E wrench (mm)	Tightening torque (Nm)	
QSMS015M4	15	M4	8	10	7	2,5	100/100
QSMS020M4	20		8	10	7	2,5	100/100
QSMS025M4	25		10	10	7	2,5	50/50
QSMS030M4	30		10	10	7	2,5	50/50
QSMS040M4	40		10	10	7	2,5	50/50
QSMS050M4	50		10	10	7	2,5	50/50
QSMS060M4	60	10	10	7	2,5	50/50	
QSMS015M5	15	M5	8	10	8	5	100/100
QSMS020M5	20		8	10	8	5	100/100
QSMS025M5	25		10	10	8	5	50/50
QSMS030M5	30		10	10	8	5	50/50
QSMS040M5	40		10	10	8	5	50/50
QSMS050M5	50		10	10	8	5	50/50
QSMS060M5	60	10	10	8	5	50/50	
QSMS080M5	80	10	10	8	5	25/25	
QSMS015M6	15	M6	10	10	10	8	100/100
QSMS020M6	20		10	10	10	8	100/100
QSMS025M6	25		10	10	10	8	50/50
QSMS030M6	30		10	10	10	8	50/50
QSMS040M6	40		10	10	10	8	50/50
QSMS050M6	50		10	10	10	8	50/50
QSMS060M6	60	10	10	10	8	50/50	
QSMS080M6	80	10	10	10	8	25/25	

CABLE PROTECTION - EXPANDABLE CABLING SLEEVES - POLYESTER
MATERIAL: polyester

OPERATING TEMPERATURE: da -50°C a +125°C max

MELTING POINT: 240 ± 10°C

SHEATH SELF-EXTINGUISHING GRADE: VW-1 (UL 1581)

MATERIAL SELF-EXTINGUISHING GRADE: UL 94 V2


Code	Size (mm)	Length (m)	Color	D1 (Ø mm)	D2 (Ø mm)	
GCP006MGR	6	100	Grey	9	3	1/1
GCP006MNE	6	100	Black	9	3	1/1
GCP008MGR	8	100	Grey	12	5	1/1
GCP008MNE	8	100	Black	12	5	1/1
GCP010MGR	10	100	Grey	17	7	1/1
GCP010MNE	10	100	Black	17	7	1/1
GCP015MGR	15	50	Grey	27	10	1/1
GCP015MNE	15	50	Black	27	10	1/1
GCP020MGR	20	50	Grey	30	14	1/1
GCP020MNE	20	50	Black	30	14	1/1
GCP030MGR	30	50	Grey	50	20	1/1
GCP030MNE	30	50	Black	50	20	1/1
GCP040MGR	40	50	Grey	60	30	1/1
GCP040MNE	40	50	Black	60	30	1/1

file n° E515258

FLAME
RETARDANT

HALOGEN
FREE

CUTTER AND PUNCHER - FOR DIN RAILS



Cutter and puncher for EN 50035, EN 50022, and EN 50045 rails. The tool is designed for extremely rapid, precise and safe cutting and punching of standardized support metal rails. It makes neat cuts without scraping or deforming the bar.

Punching is done by means of a separate operation and enables to make $\varnothing 6.5$ mm holes. The tool is supplied with a bar lock to set the cutting and punching length. This makes repeat operations easier. Specific dies and guides for the standardised metal rails are available. Additionally, a complete hydraulic kit is available; it allows the connection to a hydraulic pump.

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
2691	Cutter and puncher for DIN rails	1060	150	150	6	1225x220x220	SC

ACCESSORIES FOR CUTTER AND PUNCHER DIN RAILS: EXTENSION KIT



Bar holder extension kit for BM 2691.


The modular unit allows the increase of the cutting and punching length by multiples of 600 mm. Adjustment scale in mm.

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
26913	Bar holder extension kit for BM 2691.	50	70	50	1	60x80x60	SC

ACCESSORIES FOR CUTTER AND PUNCHER DIN RAILS: HYDRAULIC KIT

Complete hydraulic kit for BM 2691



Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
26914	Complete hydraulic kit for BM 2691. It replaces the hand lever and allows the connection to a hydraulic pump.	600	30	30	1	630x30x30	SC

ACCESSORIES FOR CUTTER AND PUNCHER DIN RAILS: DIES


Cod. 269111

Cod. 269112



Cod. 269113



Cod. 269114

Die pair for BM 2691.

SERIES: G1

COMPATIBILITY: BM 2691

Code	Rail type height (mm)	Terminal type
269111		for EN 50035 rails
269112	7.5	for EN 50022 rails
269113	15	for EN 50022 rails
269114		for EN 50045 rails

ACCESSORIES FOR CUTTER AND PUNCHER DIN RAILS: GUIDES


Code	Description
26912	Guide support
269121	Guide for EN 50035 rail
269122	Guide for EN 50022 rails
269123	Guide for EN 50045 rail





EQUIPMENT

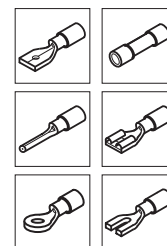
CRIMPING TOOLS	pag. 230
CABLE CUTTERS AND WIRE ROPE CUTTERS	pag. 273
DRILLERS	pag. 280
MULTIHEAD	pag. 286
PUMPS AND HEADSTOCKS	pag. 289

CRIMPING TOOL - SERIES HB

EQUIPMENT

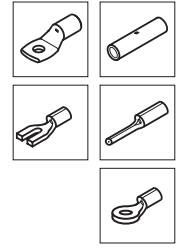
Essentiality and simplicity are the key words of the HB pliers that allow to crimp terminals whenever you need. The structure is molded in tempered carbon steel with a burnishing surface treatment and the handles are insulated in plastic material.

CRIMPING TOOL - STANDARD - FOR INSULATED TERMINALS - 0.5÷6



Crimping tool for hobbies in carbon steel tempered with burnishing surface treatment, equipped with cable cutters, strippers, crew cutters and insulated handles in plastic material.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
536	for insulated terminals and terminals with heat shrinkable insulation	0.5 ÷ 6	(20-10)	220	60	15	0,25	350x100x20	SC

CRIMPING TOOL · STANDARD · FOR UNINSULATED TERMINALS · 0.25÷6


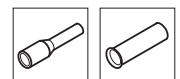
Crimping tool for hobbies in carbon steel tempered with burnishing surface treatment, equipped with cable cutters, strippers, crew cutters and insulated handles in plastic material.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
522	for uninsulated terminals	0.25 ÷ 6	(22-10)	220	60	15	0,25	350x100x20	SC

HB
CRIMPING TOOL · STANDARD · FOR BRASS OPEN TERMINALS · 0.5÷6


Crimping tool for hobbies in carbon steel tempered with burnishing surface treatment, equipped with cable cutters, strippers, crew cutters and insulated handles in plastic material.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
530	for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)	220	60	15	0,3	350x100x20	SC

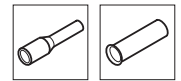
HB
CRIMPING TOOL · STANDARD · FOR END-SLEEVES · 0.25÷6


Crimping tool in carbon steel tempered with burnishing surface treatment. Insulated handles in plastic material.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
540	for end-sleeve terminals	0.25 ÷ 2.5	(22-14)	170	70	15	0,22	255x95x20	SC

HB

CRIMPING TOOL · STANDARD · FOR END-SLEEVES · 0.75÷16

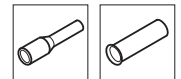


Crimping tool in carbon steel tempered with burnishing surface treatment. Insulated handles in plastic material.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
541	for end-sleeve terminals	0.75 ÷ 16	(18-6)	190	70	15	0,35	290x95x20	SC

HB

CRIMPING TOOL · STANDARD · FOR END-SLEEVES · 10÷35



Crimping tool in carbon steel tempered with burnishing surface treatment. Insulated handles in plastic material.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
542	for end-sleeve terminals	10 ÷ 35	(8-2)	225	65	18	0,4	290x95x20	SC

HB

CRIMPING TOOL - SERIES CRIM

Tempered steel dies with a mechanical strength of 1000 N/mm² that guarantee a high degree of resistance to wear and a very high precision in couplings.

Ergonomic handles in bi-component plastic.

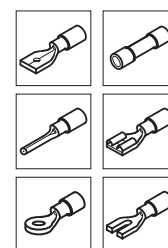
Cold-pressed steel body with electrophoresis coating.

Pin for adjusting the crimping force.

Automatic end-of-work release device to guarantee the crimping quality and to open the tool in case of a wrong manoeuvre.

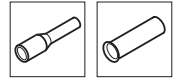


CRIMPING TOOL - AUTOMATIC - FOR INSULATED TERMINALS - 0.5÷6



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
534	for insulated terminals	0.5 ÷ 6	(20-10)	220	80	20	0,6	250x85x25	SC

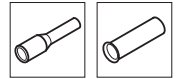
CRIMPING TOOL · AUTOMATIC · FOR END-SLEEVES · 0.5÷4



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
537	for end-sleeve terminals	0.5 ÷ 4	(20-12)	220	80	20	0,6	250x85x25	SC

CRIM

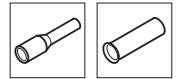
CRIMPING TOOL · AUTOMATIC · FOR END-SLEEVES · 6÷16



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
539	for end-sleeve terminals	6 ÷ 16	(10-6)	220	80	20	0,6	250x85x25	SC

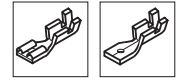
CRIM

CRIMPING TOOL · AUTOMATIC · FOR END-SLEEVES · 10÷35



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
533	for end-sleeve terminals	10 ÷ 35	(8-2)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR BRASS OPEN TERMINALS · 0.5÷6


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
531	for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 0.5÷1


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5311	for quick-connect female flag uninsulated terminals	0.5 ÷ 1	(20-18)	220	80	20	0,6	250x85x25	SC

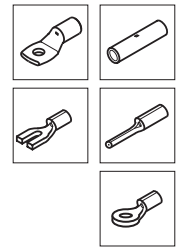
CRIM

CRIMPING TOOL · AUTOMATIC · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 1÷2.5


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5312	for quick-connect female flag uninsulated terminals	1 ÷ 2.5	(18-14)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR UNINSULATED TERMINALS · 0.5÷10



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
535	for uninsulated copper terminals	0.5 ÷ 10	(20-8)	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR COAXIAL CONNECTORS RG 58-59



Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
543	for coaxial connectors RG 58-59	220	80	20	0,6	250x85x25	SC

CRIM

CRIMPING TOOL · AUTOMATIC · FOR QUICK CONNECT INSULATED FEMALE FLAG TERMINALS · 0.5÷2.5



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
532	for quick-connect female flag insulated terminals	0.5 ÷ 2.5	(20-14)	220	80	20	0,6	250x85x25	SC

CRIM

KIT - AUTOMATIC CRIMPING TOOL + 5 DIES


Assortment kit in a plastic case complete with BM 5340 crimping tool and 5 interchangeable dies.

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5305	220	80	20	0,6	290x210x50	VA

Componente	Description
5340	Crimping tool with interchangeable dies
534D	Die for insulated terminal from 0.5 to 6 mm ² (AWG 22-10)
537D	Die for end-sleeve terminals from 0.5 to 4 mm ² (AWG 22-12)
539D	Die for end-sleeve terminals from 6 to 16 mm ² (AWG 10-6)
531D	Die for open barrel brass terminals from 0.5 to 6 mm ² (AWG 20-10)
535D	Die for uninsulated copper terminals from 0.5 to 10 mm ² (AWG 20-8)

CRIM

Devices that automatically locks the dies without the need of any tool.

Easy and tool-less insertion of the dies.



CRIMPING TOOLS - SERIES CRIMDEM

CRIMDEM

Pin for adjusting the crimping force.

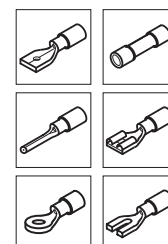
Ergonomically shaped handles which allow users to perform the crimping operations with extreme ease as well as to kip the tool in one hand even with fully open clamp.



High reduction coefficient to achieve maximum crimping pressure with minimal effort.

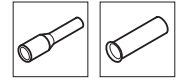
Automatic end-of-work release device to guarantee the crimping quality and to open the tool in case of a wrong manoeuvre.

CRIMPING TOOL · WITH REDUCTION · FOR INSULATED TERMINALS · 0.5÷6



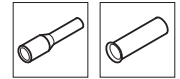
Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5341	for insulated terminals	0.5 ÷ 6	(20-10)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR END-SLEEVES · 0.5÷4


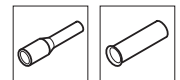
Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5371	for end-sleeve terminals	0.5 ÷ 4	(20-12)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR END-SLEEVES · 6÷16


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5391	for end-sleeve terminals	6 ÷ 16	(10-6)	225	80	20	0,54	245x85x25	SC

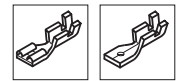
CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR END-SLEEVES · 25÷50


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5331	for end-sleeve terminals	25 ÷ 50	(4-1/0)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR BRASS OPEN TERMINALS · 0.5÷6



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5313	for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 0.5÷1



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5314	for quick-connect female flag uninsulated terminals	0.5 ÷ 1	(20-18)	225	80	20	0,54	245x85x25	SC

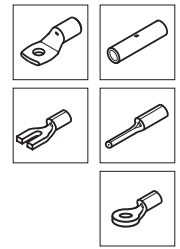
CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR QUICK CONNECT FEMALE FLAG TERMINALS · 1÷2.5



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5315	for quick-connect female flag uninsulated terminals	1 ÷ 2.5	(18-14)	225	80	20	0,54	245x85x25	SC

CRIMDEM

CRIMPING TOOL · WITH REDUCTION · FOR UNINSULATED TERMINALS · 0.5÷10


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5351	for uninsulated terminals	0.5 ÷ 10	(20-8)	225	80	20	0,54	245x85x25	SC

CRIMDEM
CRIMPING TOOL · WITH REDUCTION · FOR COAXIAL CONNECTORS RG 58-59


Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5431	for coaxial connectors RG 58-59	225	80	20	0,54	245x85x25	SC


CRIMDEM

KIT - CRIMPING TOOL WITH REDUCTION + 5 DIES



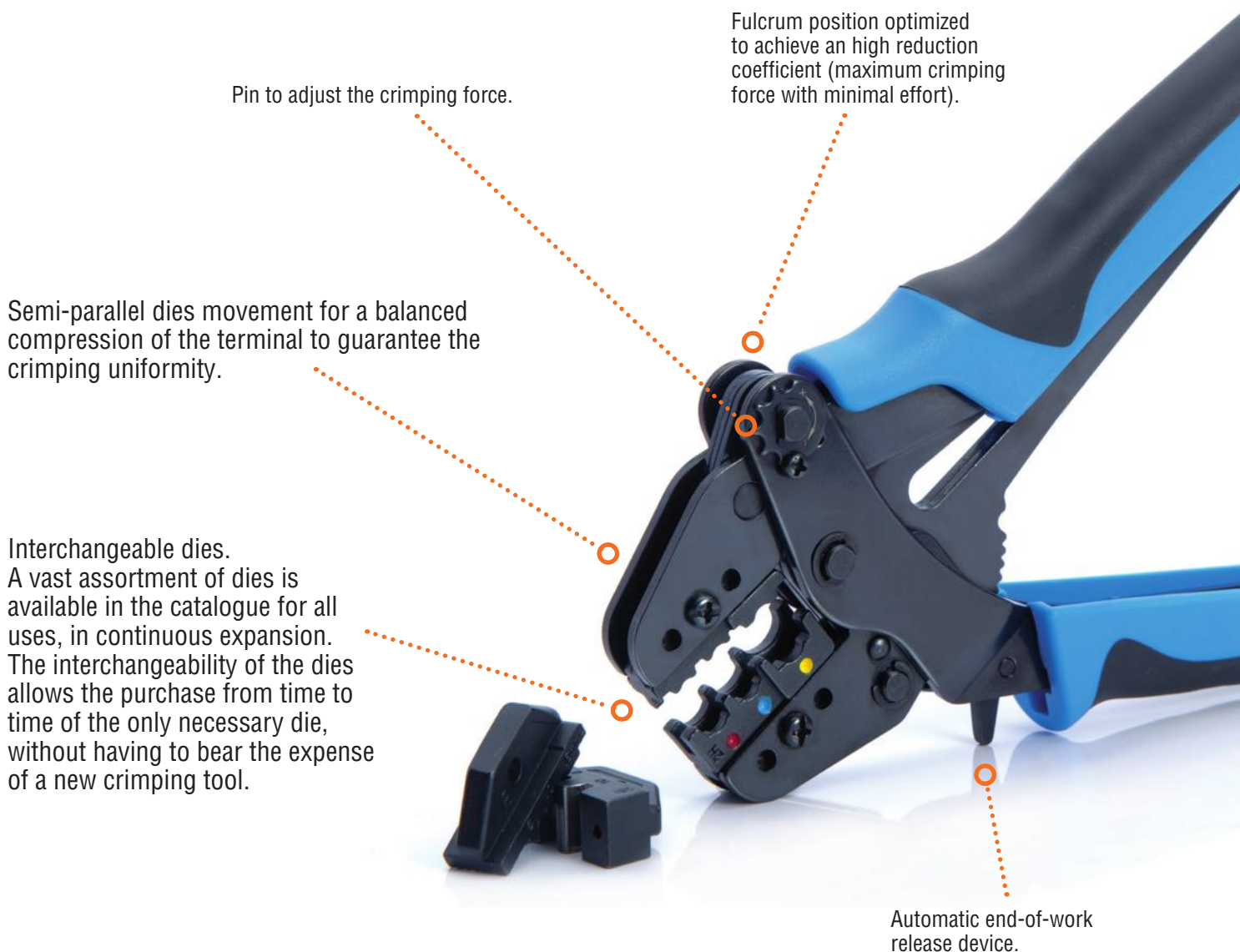
Assortment kit in a plastic case complete with BM 5341 crimping tool and 5 dies.

A variety of high precision crimping dies are available: for insulated and uninsulated terminals, for open brass barrel terminals, and for end-sleeve terminals.

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5345	220	80	20	0,6	290x210x50	VA

Componente	Description
5341	Crimping tool with reduction for insulated terminals from 0.5 to 6 mm ² (AWG 20-10)
537D	Die for end-sleeve terminals from 0.5 to 4 mm ² (AWG 22-12)
539D	Die for end-sleeve terminals from 6 to 16 mm ² (AWG 10-6)
531D	Die for open barrel brass terminals from 0.5 to 6 mm ² (AWG 20-10)
535D	Die for uninsulated copper terminals from 0.5 to 10 mm ² (AWG 20-8)

CRIMDEM



Pin to adjust the crimping force.

Fulcrum position optimized to achieve an high reduction coefficient (maximum crimping force with minimal effort).

Semi-parallel dies movement for a balanced compression of the terminal to guarantee the crimping uniformity.

Interchangeable dies.
A vast assortment of dies is available in the catalogue for all uses, in continuous expansion. The interchangeability of the dies allows the purchase from time to time of the only necessary die, without having to bear the expense of a new crimping tool.

Automatic end-of-work release device.


ONE CRIMPING TOOL

FOR ALL DIES YOU NEED!

100% FLEXIBILITY, 100% FUNCTIONALITY, 100% EFFICIENCY

CRIMPING TOOL · CRIMPAR · WITHOUT DIES



Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P000	crimping tool for interchangeable dies	220	75	27	0,6	240x85x28	SC

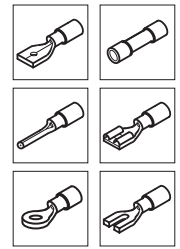
CRIMPAR

DIES · SERIES 53 · FOR CRIMPAR 53P000



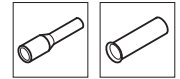
Code	Compatible positioner	Terminal type	Section (mm ²)	Section (AWG/MCM)
53M02H		dies for insulated terminals	0.5 ÷ 6	(20-10)
53M02E		die for end-sleeve terminals	0.5 ÷ 4	(20-12)
53M2E1		die for end-sleeve terminals	6 ÷ 16	(10-6)
53M5D2		die for end-sleeve terminals	16 ÷ 35	(6-2)
53M5D1		die for end-sleeve terminals die for end-sleeve terminals	25 50	(4) (1/0)
53M2E4		die for end-sleeve double cable terminals	2x 0,5 ÷ 6	2x (20-10)
53M2E5		die for end-sleeve double cable terminals	2x 10 ÷ 16	2x (7-5)
53M5N2		die for uninsulated copper terminals	0.75 ÷ 10	(8)
53M5N1		die for uninsulated copper terminals	10 ÷ 25	(8-4)
53M03C		die for coaxial connectors RG 58-59-62-6		
53M2C2		die for connectors M620 series and positioner	0.5 ÷ 2.5	(20-14)
53M02F		die for quick-connect female flag insulated terminals	0.5 ÷ 2.5	(20-14)
53MMC4		die for MC4 solar connectors	2.5 ÷ 6	(14-10)
53M02C	53L02C	die for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)
53L02C		Positioners for 53M02C die (for uninsulated male and female quick connectors)		
53M13C		die for close end connectors	0,25 ÷ 6	(22-10)

CRIMPAR SERIE53

CRIMPING TOOL · CRIMPAR · FOR INSULATED TERMINALS · 0.25÷6


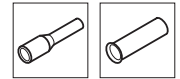
Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P02H	for insulated terminals	0.5 ÷ 6	(20-10)	220	75	27	0,6	240x85x28	SC

CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR END-SLEEVES · 0.5÷4


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Pack size LxWxH (mm)	
53P02E	for end-sleeve terminals	0.5 ÷ 4	(20-12)	220	75	27	240x85x28	SC

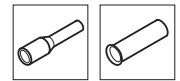
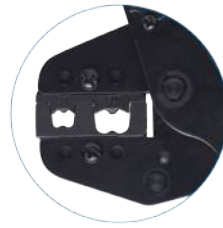
CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR END-SLEEVES · 6÷16


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P2E1	for end-sleeve terminals	6 ÷ 16	(10-6)	220	75	27	0,6	240x85x28	SC

CRIMPAR

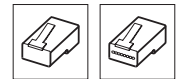
CRIMPING TOOL · CRIMPAR · FOR END-SLEEVES · 25-50



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P5D1	for end-sleeve terminals	25 - 50	4-1	220	75	27	0,6	240x85x28	SC

CRIMPAR

CRIMPING TOOL · CRIMPAR · FOR RJ45 CONNECTORS



Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53P5YA	for pass-through and standard 8P8C modular connectors RJ45	220	75	27	0,6	240x85x28	SC

CRIMPAR

KIT · CRIMPAR CRIMPING TOOL + 5 DIES



Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53KPBF	220	75	27	0,6	305x220x70	VA

Componente	Description
53P000	Crimping tool with interchangeable dies
53M02H	Die for insulated terminal from 0.5 to 6 mm ² (AW 20-10)
53M02E	Die for end-sleeve terminals from 0.5 to 4 mm ² (AWG 22-12)
53M2E1	Die for end-sleeve terminals from 6 to 16 mm ² (AWG 10-6)
53M5N2	Die for uninsulated copper terminals from 0.75 to 10 mm ² (AWG 18-8)
53M02C	Die for open barrel brass terminals from 0.5 to 6 mm ² (AWG 20-10)

CRIMPAR

ACCESSORIES FOR CRIMPAR CRIMPING TOOL - EMPTY CASE + SCREWS


Empty case for CRIMPAR crimping tool and 5 dies + screws for quick replacement of dies

Code	Length (mm)	Width (mm)	Thickness (mm)	Pack size LxWxH (mm)	
53K000	300	215	65	305x220x70	VA

CRIMPAR

CRIMPING TOOLS - SERIES RJ

EQUIPMENT

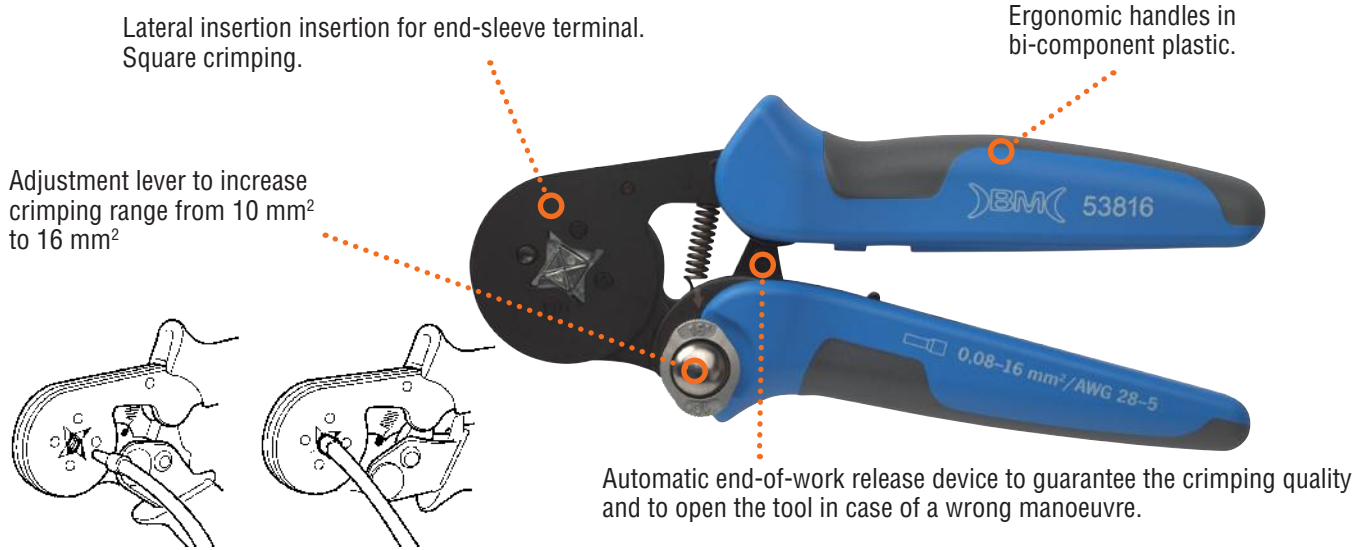
CRIMPING TOOL · FOR RJ CONNECTORS



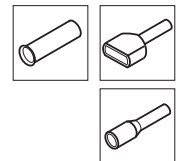
Safety device with mechanical end-of-work release ensuring correct crimping.
Possibility of cutting and stripping the cable.
Ergonomic handle in bi-component material.

Code	Field of use	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
549	for RJ 11-12-14-22-45 connectors	230	100	20	1	250x85x25	SC

CRIMPING TOOLS - SERIES CRIMQ



CRIMPING TOOL · SQUARE CRIMPING · LATERAL INSERTION

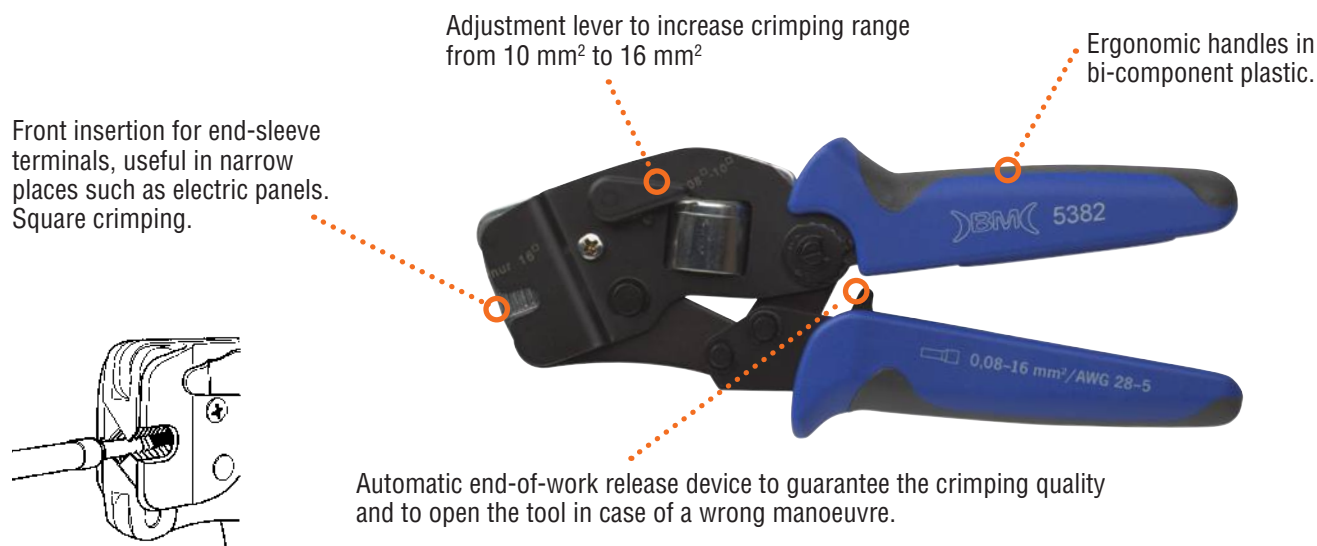


Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
53816	for single and double cable end-sleeve terminals	1x(0.08÷16), 2x(0.5÷6)	1x(28÷5), 2x(20÷10)	200	70	20	0,5	210x75x25	SC

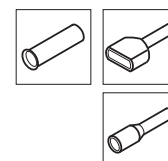
CRIMPING TOOLS - SERIES CRIMQ

CRIMQ

EQUIPMENT



CRIMPING TOOL · SQUARE CRIMPING · FRONT INSERTION



Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5382	for single and double cable end-sleeve terminals	1x(0.08÷16), 2x(0.5÷6)	1x(28÷5), 2x(20÷10)	200	70	20	0,5	210x75x25	SC

CRIMQ

CRIMPING TOOL FOR END-SLEEVE TERMINALS IN A STRAP

CRIMPING TOOL · FOR END-SLEEVE TERMINALS IN A STRAP



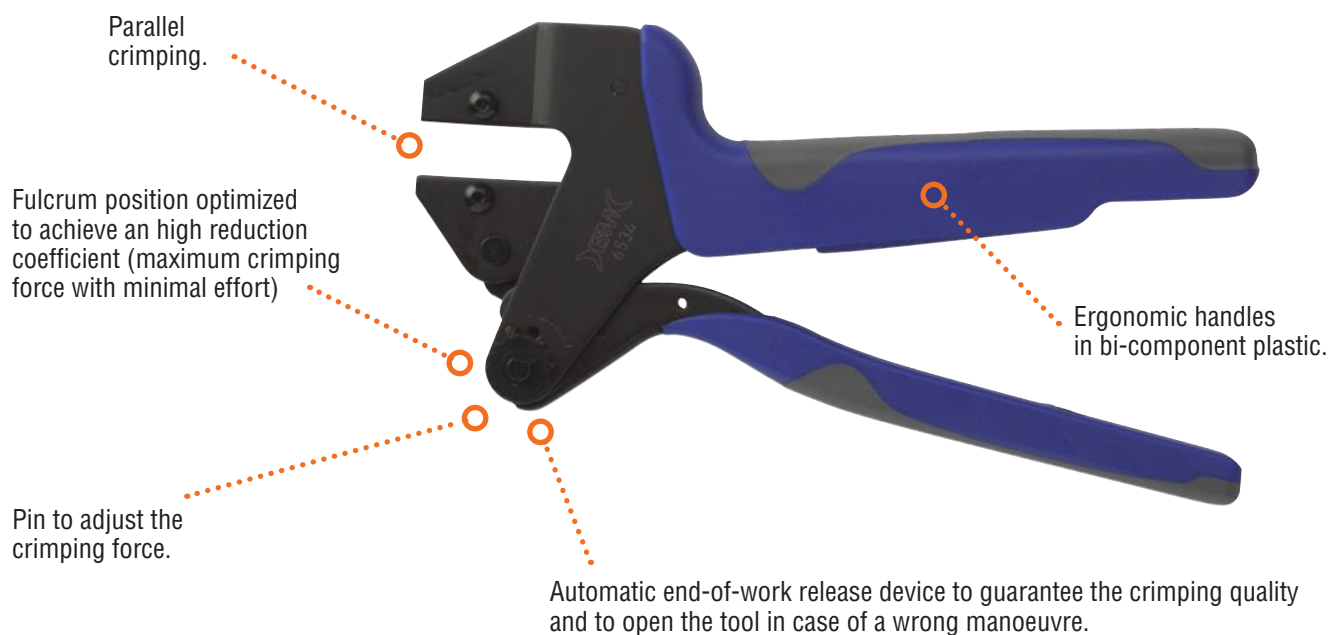
A perfect synthesis of functionality and ergonomics for a quick and precise clamping of end-sleeve terminals in a strap. Complete with four loaders for sections from 0.5 to 2.5 mm² for easy and fast swap.

Multifunctional crimping tool which enables users to cut, strip, roll the flexible cable and crimp the terminal.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5375	for end-sleeve terminals	0.5 ÷ 2.5	(20-14)	220	80	20	0,7	290x210x50	SC

PARALLEL CRIMPING TOOLS

EQUIPMENT



CRIMPING TOOL - PARALLEL CRIMPING



With plastic case

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
6534	200	100	20	1	260x230x50	VA

SERIE6

DIES · SERIES 6 · FOR BM 6534


Code	Compatible positioner	Terminal type	Section (mm ²)	Section (AWG/MCM)
634D		dies for insulated terminals	0.5 ÷ 6	(20-10)
635D		die for uninsulated copper terminals	0.5 ÷ 10	(20-8)
636D		dies for insulated terminals	10 ÷ 16	(8-6)
631D	65341	die for uninsulated open barrel brass terminals	0.1 ÷ 2.5	(27-14)
65341		positioner for die 631D for quick-connect terminals female		
6311D	65342	die for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)
65342		positioner for die 6311D for quick-connect terminals female		
6321D		die for uninsulated open barrel brass terminals	0.5 ÷ 2.5	(20-14)
		for uninsulated open flag brass terminals	0.5 ÷ 1	(20-18)
6322D		die for uninsulated open barrel brass terminals	1.5 ÷ 6	(16-10)
		for uninsulated open flag brass terminals	1.5 ÷ 2.5	(16-14)

SERIE6

DIES · SERIES 6 · FOR BM 6534 · PHOTOVOLTAIC CONNECTORS


Code	Compatible positioner	Terminal type
6313D		die for MC3 connectors and positioner
6314D	6315D	die for MC4 connectors
6315D		positioner for die 6314D for MC4 connectors
6316D	6317D	die for Tyco connectors
6317D		positioner for die 6316D for Tyco connectors

SERIE6

CRIMPING TOOLS WITH LONG HANDLES

CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED DIN TERMINALS · 1÷10



Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
524	for uninsulated DIN 46235, 46234, 46267/1 terminals	1 ÷ 10	(18-8)	250	90	20	0,5	330x110x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED DIN TERMINALS · 1÷16



Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
525	for uninsulated DIN 46235, 46234, 46267/1 terminals	1 ÷ 16	(18-6)	280	90	20	0,52	330x110x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR END CONNECTORS AND THERMO-SHRINKABLE INSULATED BUTT CONNECTORS


Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
528	for end connectors and thermo-shrinkable insulated butt connectors	0.5 ÷ 6	(20-10)	270	95	20	0,52	280x100x25	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR C SHUNTS · 6÷10


Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
529	for C shunts	6 ÷ 10	(10-8)	290	95	20	0,55	300x100x25	SC


CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED TERMINALS · 10÷35


Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
526	for uninsulated terminals	10 ÷ 35	(8-2)	350	110	25	0,86	395x135x30	SC


CRIMPING TOOL · WITH LONG HANDLES · FOR END-SLEEVES · 25÷50

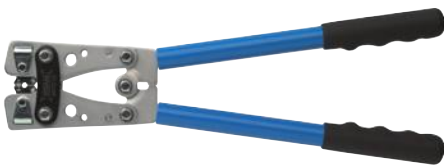

Dies made of micro-casted steel.
Cold-pressed steel levers.
Handles insulated with anti-slip plastic.
Equipped with safety device and end-of-work release.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
527	for end-sleeve terminals	25 ÷ 50	(4-1/0)	320	95	20	0,7	300x100x25	SC


CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED TERMINALS · 10÷120

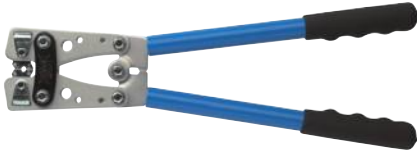

Entirely made of steel with epoxy powder surface coating, which guarantees a high degree of corrosion resistance. Handles insulated by means of a bath in plastic material. Easy to use, with adjustable die for deep crimping of uninsulated terminals.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
523	for uninsulated terminals	10 ÷ 120	(8-4/0)	570	100	35	3,2	575x120x40	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED TERMINALS · 6÷50


Made of cold pressed steel.
Handles insulated with anti-slip plastic material.
Revolving dies with positioning lock.
Hexagonal and MW crimping.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Crimping type	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
510	for uninsulated terminals	6 ÷ 50	(10-1/0)	hexagonal	390	130	35	1,6	400x140x140	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED DIN TERMINALS · 6÷50


Made of cold pressed steel.
 Handles insulated with anti-slip plastic material.
 Revolving dies with positioning lock.
 Hexagonal and MW crimping.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Crimping type	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
511	for uninsulated DIN 46235, 46234, 46267/1 terminals	6 ÷ 50	(10-1/0)	hexagonal	390	130	35	1,6	400x140x140	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED TERMINALS · 10÷120


Made of cold pressed steel.
 Handles insulated with anti-slip plastic material.
 Revolving dies with positioning lock.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Crimping type	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
512	for uninsulated terminals	10 ÷ 120	(8-4/0)	hexagonal	610	200	30	4	630x200x30	SC

CRIMPING TOOL · WITH LONG HANDLES · FOR INSULATED DIN TERMINALS · 10÷120


Made of cold pressed steel.
 Handles insulated with anti-slip plastic material.
 Revolving dies with positioning lock.
 Hexagonal and MW crimping.

Code	Field of use	Section (mm ²)	Section (AWG/MCM)	Crimping type	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
513	for uninsulated DIN 46235, 46234, 46267/1 terminals	10 ÷ 120	(8-4/0)	hexagonal	610	190	30	4,5	640x200x60	SC

CRIMPING TOOL - WITH LONG HANDLES - SERIES 82




DIES: 82 series

FIELD OF USE: terminals

- uninsulated from 10 to 150 mm² (180 mm² for DIN)
- uninsulated class 5 and DIN from 10 to 120 mm²
- medium voltage from 25 to 35 mm²
- aluminum from 16 to 150 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 150 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 35 mm²
- end-sleeve from 50 to 150 mm²

with metallic carrying case (dies not included)

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
582	780	170	50	5	805x22x100 (V)	VA

SERIE82

HAND HYDRAULIC CRIMPING TOOLS

CRIMPING TOOL · HYDRAULIC · MANUAL · 50KN · DIES SERIES 82



CRIMPING FORCE AT DIE LEVEL: 50 kN

DIES: 82 series

FIELD OF USE: terminals

- uninsulated from 10 to 240 mm² (185 mm² for DIN)
- uninsulated class 6 and DIN from 10 to 185 mm²
- medium voltage from 25 to 150 mm²
- aluminum from 16 to 150 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 150 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 35 mm²
- end-sleeve from 50 to 150 mm²

- lateral snap opening for quick and easy die positioning
- 180° swivel head for easy crimping in narrow places
- two pistons advancement speeds: one for quickly matching die terminal, the other for crimping
- automatic end-of-work release device to guarantee the crimping quality
- release lever device to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1823P	kit including: • 50 kN press • carrying case	380	140	70	2	450x280x80	VA
1823A1	• die set for uninsulated terminals from 10 to 150 mm ² • die set for C shunts from 16 to 35 mm ² • carrying case	380	140	70	2	450x280x80	VA
1823A2	• die set for uninsulated terminals from 10 to 185 mm ² • carrying case	380	140	70	2	450x280x80	VA
1823A3	• die set for uninsulated terminals from 10 to 240 mm ² • carrying case	380	140	70	2	450x280x80	VA
1823A4	• die set for uninsulated DIN terminals (DIN 46235, 46234, 46267/1) from 10 to 185 mm ² • carrying case	380	140	70	2	450x280x80	VA

SERIE82

CRIMPING TOOL · HYDRAULIC · MANUAL · 60KN · DIES SERIES 83



CRIMPING FORCE AT DIE LEVEL: 60 kN

DIES: 83 series

- FIELD OF USE:** terminals
- uninsulated from 10 to 300 mm²
 - uninsulated class 6 from 10 to 185 mm²
 - DIN standard from 10 to 240 mm²
 - NFC standard from 4 to 240 mm²
 - medium voltage from 25 to 300 mm²
 - aluminum from 16 to 185 mm²
 - bimetallic from 16 to 150 mm²
 - bimetallic DIN from 16 to 185 mm²
 - insulated from 10 to 95 mm²
 - C shunt from 10 to 95 mm²
 - end-sleeve from 50 to 150 mm²

- lateral snap opening for quick and easy die positioning
- 180° swivel head for easy crimping in narrow places
- two pistons advancement speeds: one for quickly matching die and terminal, the other for crimping
- automatic end-of-work release device to guarantee the crimping quality
- release lever device to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1833	60 kN hand hydraulic press with carrying case	410	140	70	3,1	450x280x80	VA
1833A1	kit including • 60 kN press • die set for uninsulated terminals from 10 to 240 mm ² • die set for C shunts from 16 to 95 mm ² • carrying case	410	140	70	3,1	450x280x80	VA

SERIE83

HYDRAULIC · MANUAL · 120 kN · DIES SERIES 84



CRIMPING FORCE AT DIE LEVEL: 120 kN

DIES: 84 series

- FIELD OF USE:** terminals
- uninsulated from 10 to 400 mm² (300 mm² for DIN)
 - uninsulated class 6 from 10 to 185 mm²
 - medium voltage from 25 to 400 mm²
 - aluminum from 16 to 240 mm²
 - bimetallic from 16 to 300 mm²
 - bimetallic DIN from 16 to 300 mm²
 - insulated from 10 to 240 mm²
 - C shunt from 10 to 150 mm²
 - end-sleeve from 50 to 150 mm²

- "C" opening for easy joint crimping (the maximum conductor section depends on cable insulation thickness)
- bigger "C" opening in 184PL version to crimp big section joints
- 180° swivel head for easy crimping in narrow places
- two piston advancement speeds: one for quickly matching die and terminal, the other for crimping
- automatic end-of-work release device to guarantee crimping quality
- release device activated by a rotation of the handle to open the tool at the end of operation and in case of a wrong manoeuvre

Code	Description	Max "C" opening (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
184P	120 kN press with carrying case	25	580	210	72	6,3	730x250x110	VA
184PL	120 kN press with carrying case	42	640	210	77	8,2	730x250x110	VA

SERIE84

CRIMPING TOOL · HYDRAULIC · MANUAL · 130KN · DIES SERIES 86, SERIES 84


CRIMPING FORCE AT DIE LEVEL: 130 kN

DIES: 84 series and 86 series

FIELD OF USE: 84 series for terminals

- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

86 series for deep indent of terminals

- aluminum from 35 to 240 mm²

- with 86 series it allows the crimping of aluminum terminal of through deep indent
- 18694 adapter is required to use the 84 series dies
- 180° swivel head for easy crimping in narrow places
- two pistons advancement speeds: one for quickly matching die and terminal, the other for crimping
- automatic end-of-work release device to guarantee crimping quality
- release device activated by a rotation of the handle to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
186	130 kN press with carrying case	620	160	80	6,3	690x200x90	VA

SERIE86 SERIE84

BATTERY POWERED TOOLS

A wide range of **18V Li-Ion** battery operated tools for **crimping** or **cutting cables / ropes**.
Two types of tools: **in-line** for greater lightness and manageability, and **traditional pistol**,
for more powerful engine to develop forces of **62kN** and **130kN**.

RANGE:



Crimping: 37A055, 37A055A1
Cutting: 37T055



Crimping: 38A062, 38A130, 38A130L
Cutting: 38T130

DISCOVER THE NEW GENERATION OF HYDRAULIC TOOLS OPERATED ON 18V LI-ION **BATTERY!**

ERGONOMIC

Body made of bi-component material

POWERFUL

Stanley high performance
rechargeable 18V Li-Ion battery

INTELLIGENT

LED display to provide crimp feedback
and maintenance

**CRIMPING OR CUTTING:
DIFFERENT SOLUTIONS FOR ANY JOBSITE!**



**DISCOVER
MORE!**



BATTERY CRIMPING TOOLS

CRIMPING TOOL · BATTERY POWERED · IN-LINE · 55KN · DIES SERIES 83



CRIMPING FORCE AT DIE LEVEL: 55 kN

BAT: 9 mm

CRIMPING TIME: from 3 to 5 s

DIES: 83 series

BATTERY: Stanley, Lithium, 18V 2.0Ah

BATTERY CAPACITY: about 220 crimps (CU 185 mm²)

USB SOCKET: Mini

FIELD OF USE: terminals

- Class 1,2,5 conductors from 10 to 300 mm²
- Class 6 conductors from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 4 to 240 mm²
- Medium voltage from 25 to 300 mm²
- Aluminum and bimetallic from 16 to 185 mm²
- Insulated from 10 to 95 mm²
- C shunt from 10 to 25 mm²

- LED lighting of the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- on/off button with emergency saving function
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at crimping or cutting end for high user safety
- energy saving function for switching off the tool
- crimping speed improved by a high performance motor
- possibility to use 5.0Ah battery for an extended use
- quick opening & closing head
- dies retention spheres
- hexagonal crimping up to 300 mm²
- interchangeable die set
- rotative head 180°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
37A055	Kit including: • crimping tool 55 kN • Rechargeable battery Stanley 18V li-Ion 2.0Ah • Stanley battery charger 220V AC powered • carrying case	128	75	390	2,9	471x415x116 (V)	VA
37A055A1	Kit including: • crimping tool 55 kN • die set for uninsulated terminals from 10 to 240 mm ² • Rechargeable battery Stanley 18V li-Ion 2.0Ah • Stanley battery charger 220V AC powered • carrying case	128	75	390	2,9	471x415x116 (V)	VA

CRIMPING TOOL - BATTERY POWERED - 62KN - DIES SERIES 85



CRIMPING FORCE AT DIE LEVEL: 62 kN

BAT: 13 mm

CRIMPING TIME: from 3 to 5 s

DIES: 85 series

BATTERY: Stanley, Lithium, 18V 5.0Ah

BATTERY CAPACITY: about 340 crimps (CU 185 mm²)

USB SOCKET: Micro

FIELD OF USE: terminals

- Class 1,2,5 conductors from 10 to 300 mm²
- Class 6 conductors from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 6 to 300 mm²
- Medium voltage from 25 to 300 mm²
- Aluminum and bimetallic from 16 to 240 mm²
- Insulated from 10 to 95 mm²
- C shunt from 10 to 50 mm²
- End-sleeves from 50 to 95 mm²

- ring LED to provide crimping cycle information and to lighten the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- safety locking trigger
- protection membrane to ventilate the electronics keeping it safe from moisture and dust
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at crimping or cutting end for high user safety
- energy saving function for switching off the tool
- crimping speed improved by a high performance motor
- 2 hydraulic pump stages for improved fast advance
- quick opening & closing head
- dies retention spheres
- hexagonal crimping up to 300 mm²
- excellent ratio weight/capacity
- interchangeable die set
- rotative head 270°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
38A062	Kit including: • crimping tool 62 kN • Rechargeable battery Stansley 18V li-Ion 5.0Ah • Stanley battery charger 220V AC powered • carrying case	375	75	325	5,1	594x494x149	VA



SERIE85

CRIMPING TOOL · BATTERY POWERED · 130KN · DIES SERIES 84

CRIMPING FORCE AT DIE LEVEL: 130 kN

DIES: 84 series

BATTERY: Stanley, Lithium, 18V, 5.0Ah

USB SOCKET: Micro

FIELD OF USE: terminals

- Class 1,2,5 conductors from 10 to 400 mm²
- Class 6 conductors from 10 to 185 mm²
- DIN standard from 10 to 300 mm²
- NFC standard from 6 to 300/400 mm² (38A130/38A130L)
- Medium voltage from 25 to 400 mm²
- Aluminum and bimetallic from 16 to 300 mm²
- Insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- End-sleeves from 50 to 150 mm²

- ring LED to provide crimping cycle information and to lighten the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- safety locking trigger
- protection membrane to ventilate the electronics keeping it safe from moisture and dust
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at crimping or cutting end for high user safety
- energy saving function for switching off the tool
- crimping speed improved by a high performance motor
- 2 hydraulic pump stages for improved fast advance
- "C" opening
- dies retention spheres
- hexagonal crimping up to 400 mm²
- interchangeable die set

Code	Description	Max "C" opening (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
38A130	Kit including: • crimping tool 130 kN • Rechargeable battery Stanley 18V li-Ion 5.0Ah • Stanley battery charger 220V AC powered • carrying case	27	400	75	310	7	594x494x149	VA
38A130L	Kit including: • crimping tool 130 kN • Rechargeable battery Stanley 18V li-Ion 5.0Ah • Stanley battery charger 220V AC powered • carrying case	45	430	75	310	7,4	594x494x149	VA


SERIE84

ACCESSORIES • FOR BATTERY POWERED TOOL


Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)
39B2AH	Rechargeable battery Stanley 18V Li-ion 2.0 Ah Charge time: 40 min Compatibility: 37A055, 37T055	115	75	45	0,36
39B5AH	Rechargeable battery Stanley 18V Li-ion 5.0 Ah Charge time: 80 min Compatibility: 37A055, 37T055, 38A062, 38A130, 38A130L, 38T130	115	75	65	0,62
39C220	Stanley battery charger for Stanley batteries, 220V AC powered	180	120	80	0,54



DIES SELECTION GUIDE

MECHANICAL

Code	Dies
582	SERIE82



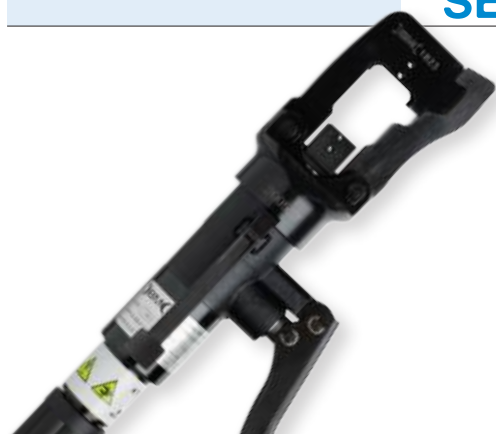
BATTERY POWERED

Code	Dies
37A055 / 37A055A1 383 *phase-out	SERIE83
38A062	SERIE85
38A130 / 38A130L 384 *phase-out	SERIE84



HAND HYDRAULIC

Code	Dies
1823P / 1823A1 / 1823A2 / 1823A3 / 1823A4 182 / 182P / 1823 / 1824 *phase-out 200 / 200PA	SERIE82
1833 / 1833A1 183 / 183P *phase-out	SERIE83
184P / 184PL 184 *phase-out	SERIE84
186	SERIE84 SERIE86



HEADSTOCKS

Code	Dies
200A	SERIE82
2833 283 *phase-out	SERIE83
284 / 284L	SERIE84
286	SERIE84 SERIE86





SERIE82

DIES SERIES 82

COMPATIBILITY

- 582 mechanical crimping tool (up to 150 mm² for uninsulated terminals and up to 120 mm² for DIN terminals)
- 200/200PA hydraulic manual multi-head

- 1823P/1823A1/1823A2/1823A3/1823A4 hydraulic manual
- 182/182P/1823/1824 hydraulic manual (out of print)
- 200A crimping head for multi-head manual hydraulic

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished

mm ²	For copper conductors								For all
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)		uninsulated class 6 (terminal lug)		uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)		prerounding
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type
10	182010	7	182010	7	182310	6	---	-	---
16	182016	7.5	182016	7.5	182316	8	---	-	---
25	182025	9	182025	9	182325	10	182325	10	---
35	182035	11	182035	11	182335	12	---	-	---
50	182035	12	182435	13	182335	14	182035	12	182550
70	182025	14	182025	14	182325	16	182016	16	182570
95	182016	16	182010	18	182316	18	182015	20	182595
120	182010	18	182015	20	182310	20	182018	22	182512
150	182015	20	182018	22	182018	22	---	-	182515
185	182018	22	182024	25	182024	25	---	-	---
240	182024	25	---	-	---	-	---	-	---

mm ²	For copper conductors			For aluminum conductors			
	insulated (terminal lug)	C shunts	End-sleeves	uninsulated (bimetallic)		uninsulated DIN 48201 (terminal lug, bimetallic, joint)	
	Die Type	Die Type	Die Type	Die Type	ID	Die Type	ID
10	182110	182210	---	---	-	---	-
16	182116	182225	---	182450	15	182035	12
25	182125	---	---	---	-	---	-
35	182135	182235	---	---	-	182435	13
50	182150	---	182650	182015	20	182450	15
70	182170	---	182670	---	-	182015	20
95	182195	---	182695	---	-	182495	21
120	---	---	182612	182024	25	182018	22
150	---	---	182615	---	-	182024	25
185	---	---	---	---	-	---	-
240	---	---	---	---	-	---	-

KEY TO SYMBOLS

- hexagonal compression
- compression with radial containment

- oval compression
- trapezoidal compression



DIES SERIES 83

COMPATIBILITY

- **1833/1833A1** hydraulic manual
- **183/183P** hydraulic manual (out of print)
- **37A055/37A055A1** hydraulic battery powered
- **383** hydraulic battery powered (out of print)
- **2833** head for pump
- **283** head for pump (out of print)

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished

mm ²	For copper conductors										For all prerounding
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)		uninsulated class 6 (terminal lug)		uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)		uninsulated NFC (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)		
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	
4	---	-	---	-	---	-	183704	⊙	---	-	---
6	---	-	---	-	---	-	183706	⊙	---	-	---
10	183010	7	⊙	183010	7	⊙	183310	6	⊙	183710	---
16	183016	7.5	⊙	183016	7.5	⊙	183316	8	⊙	183716	---
25	183025	9	⊙	183025	9	⊙	183325	10	⊙	183725	⊙
35	183035	11	⊙	183035	11	⊙	183335	12	⊙	183706	---
50	183050	12	⊙	183435	13	⊙	183350	14	⊙	183710	⊙
70	183050	14	⊙	183050	14	⊙	183350	16	⊙	183716	⊙
95	183035	16	⊙	183025	18	⊙	183335	18	⊙	183725	⊙
120	183025	18	⊙	183016	20	⊙	183325	20	⊙	183704	⊙
150	183016	20	⊙	183010	22	⊙	183316	22	⊙	183715	⊙
185	183010	22	⊙	183024	25	⊙	183310	25	⊙	183718	⊙
240	183024	25	⊙	---	-	-	183324	28	⊙	183724	⊙
300	183324	28	⊙	---	-	-	---	-	---	-	---

mm ²	For copper conductors				For aluminum conductors									
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)		uninsulated DIN 48201 (terminal lug, bimetallic, joint)					
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID				
4	---	-	---	-	---	-	---	-	---	-				
6	---	-	---	-	---	-	---	-	---	-				
10	183110	⊙	183210	⊙	---	-	---	-	---	-				
16	183116	⊙	183225	⊙	---	-	183450	15	⊙	183050	12	⊙		
25	183125	⊙	---	-	---	-	---	-	---	-	---	-		
35	183135	⊙	183235*	⊙	---	-	---	-	---	-	183435	13	⊙	
50	183150	⊙	---	-	183650	⊙	---	-	183016	20	⊙	183450	15	⊙
70	183170	⊙	183270*	⊙	183670*	⊙	---	-	---	-	183016	20	⊙	
95	183195	⊙	183295*	⊙	183695*	⊙	---	-	---	-	183495	21	⊙	
120	---	-	---	-	183612*	⊙	183024	25	⊙	183010	22	⊙		
150	---	-	---	-	183615*	⊙	---	-	---	-	183024	25	⊙	
185	---	-	---	-	---	-	---	-	---	-	183324	28	⊙	
240	---	-	---	-	---	-	---	-	---	-	---	-	---	
300	---	-	---	-	---	-	---	-	---	-	---	-	---	

* dies not usable with crimping tool 37A055

KEY TO SYMBOLS

- ⊙ hexagonal compression
- ⊖ compression with radial containment
- ⊙ oval compression
- ⊖ trapezoidal compression



SERIE 84

DIES SERIES 84

COMPATIBILITY

- 184P/184PL/186 hydraulic manual
- 184 hydraulic manual (out of print)

- 38A130/38A130L hydraulic battery powered
- 384 hydraulic battery powered (out of print)
- 284/284L/286 head for pump

MATERIAL: steel + heat treatment
SURFACE TREATMENT: burnished
THICKNESS: 35 mm

mm ²	For copper conductors										For all prerounding Die Type
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)		uninsulated class 6 (terminal lug)		uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)		uninsulated NFC (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)		
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	
6	---	-	---	-	---	-	184706	⬡	---	-	---
10	184010	7	184010	7	184310	6	184710	⬡	---	-	---
16	184016	7.5	184016	7.5	184316	8	184716	⬡	---	-	---
25	184025	9	184025	9	184325	10	184725	⬡	184325	10	---
35	184035	11	184035	11	184050	12	184735	⬡	---	-	---
50	184050	12	184435	13	184070	14	184750	⬡	184050	12	184550
70	184070	14	184070	14	184095	16	184770	⬡	184095	16	184570
95	184095	16	184012	18	184012	18	184795	⬡	184015	20	184595
120	184012	18	184015	20	184015	20	184712	⬡	---	-	---
150	184015	20	184018	22	184018	22	184715	⬡	184018	22	184512
185	184018	22	184024	25	184024	25	184718	⬡	---	-	---
240	184024	25	---	-	184030	28	184724	⬡	184030	28	184515
300	184030	28	---	-	184424	32	184730	⬡	---	-	---
400	184040	35	---	-	---	-	184740*	⬡	184040	35	184518
											184524
											184530
											184540

mm ²	For copper conductors				For aluminum conductors					
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)		uninsulated DIN 48201 (terminal lug, bimetallic, joint)	
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID
6	---	-	---	-	---	-	---	-	---	-
10	184110	⬡	184210	⬡	---	-	---	-	---	-
16	184116	⬡	---	-	---	-	184450	15	184050	12
25	184125	⬡	184225	⬡	---	-	---	-	---	-
35	184135	⬡	184235	⬡	---	-	---	-	184435	13
50	184150	⬡	---	-	184650	⬡	184015	20	184450	15
70	184170	⬡	184270	⬡	184670	⬡	---	-	184015	20
95	184195	⬡	184295	⬡	184695	⬡	---	-	184495	21
120	184112	⬡	---	-	184612	⬡	184024	25	184018	22
150	184115	⬡	184212	⬡	184615	⬡	---	-	184024	25
185	184118	⬡	---	-	---	-	---	-	184030	28
240	184124	⬡	---	-	---	-	184424	32	184424	32
300	---	-	---	-	---	-	---	-	---	-
400	---	-	---	-	---	-	---	-	---	-

* Dies usable only with 38A130L, 184PL and 284L crimping tools

KEY TO SYMBOLS

- ⬡ hexagonal compression
- ⬢ compression with radial containment

- ⬡ oval compression
- ⬢ trapezoidal compression



DIES SERIES 85

COMPATIBILITY

• 38A062 hydraulic battery powered

MATERIAL: steel + heat treatment

SURFACE TREATMENT: burnished

THICKNESS: 22 mm

mm ²	For copper conductors										For all	
	uninsulated cl 1, 2, 5 (terminal lug, butt connector)		uninsulated class 6 (terminal lug)		uninsulated DIN 46235, 46234, 46267/1 (terminal lug, butt connector)			uninsulated NFC (terminal lug, butt connector)		uninsulated Medium Voltage (terminal lug, butt connector)		prerounding
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	
6	---	-	---	-	---	-	185706	○	---	-	---	
10	185010	7 ○	185010	7 ○	185310	6 ○	185710	○	---	-	---	
16	185016	7.5 ○	185016	7.5 ○	185316	8 ○	185716	○	---	-	---	
25	185025	9 ○	185025	9 ○	185325	10 ○	185725	○	185325	10 ○	---	
35	185035	11 ○	185035	11 ○	185050	12 ○	185735	○	185050	12 ○	---	
50	185050	12 ○	185435	13 ○	185070	14 ○	185750	○	---	-	185550	
70	185070	14 ○	185070	14 ○	185095	16 ○	185770	○	185095	16 ○	185570	
95	185095	16 ○	185012	18 ○	185012	18 ○	185795	○	185015	20 ○	185595	
120	185012	18 ○	185015	20 ○	185015	20 ○	185712	○	185018	22 ○	185512	
150	185015	20 ○	185018	22 ○	185018	22 ○	185715	○	---	-	185515	
185	185018	22 ○	185024	25 ○	185024	25 ○	185718	○	---	-	---	
240	185024	25 ○	---	-	185030	28 ○	185724	○	185030	28 ○	---	
300	185030	28 ○	---	-	---	-	185730	○	---	-	---	

mm ²	For copper conductors				For aluminum conductors					
	insulated (terminal lug)		C shunts		End-sleeves		uninsulated (bimetallic)		uninsulated DIN 48201 (terminal lug, bimetallic, joint)	
	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID	Die Type	ID
6	---	-	---	-	---	-	---	-	---	-
10	185110	○	185210	○	---	-	---	-	---	-
16	185116	○	185225	○	---	-	185450	15 ○	185050	12 ○
25	185125	○	---	-	---	-	---	-	---	-
35	185135	○	185235	○	---	-	---	-	185435	13 ○
50	185150	○	185250	○	185650	▽	185015	20 ○	185450	15 ○
70	185170	○	---	-	185670	▽	---	-	185015	20 ○
95	185195	○	---	-	185695	▽	---	-	185495	21 ○
120	---	-	---	-	---	-	185024	25 ○	185018	22 ○
150	---	-	---	-	---	-	---	-	185024	25 ○
185	---	-	---	-	---	-	185424	32 ○	185030	28 ○
240	---	-	---	-	---	-	---	-	185424	32 ○
300	---	-	---	-	---	-	---	-	---	-

KEY TO SYMBOLS

- hexagonal compression
- compression with radial containment

- oval compression
- ▽ trapezoidal compression



SERIE 86

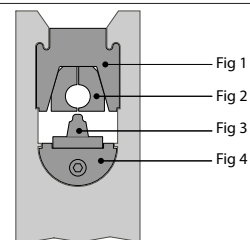
EQUIPMENT

DIES SERIES 86

COMPATIBILITY

- **BM 186** (hydraulic manual crimping tool)
- **BM 286** (crimping head)

For aluminium conductors DIN 48201							
mm ²	Die holder Fig. 1	Die Fig. 2		Indentor Fig. 3	Die support Fig. 4		
	Code	for terminal lugs Code	for joints Code	Code	Code		
35	18692	186750	186850	186450	18691		
50		186770	186870	186470			
70		186715	186815	186415			
95	18693						
120							
150							
185							
240		186724	186824	186424			



ADAPTOR



Code	Description
18694	Series 84 die adapter for items 186 and 286

CABLE CUTTERS AND WIRE ROPE CUTTERS

CABLE CUTTER - UP TO 35 mm²



High-precision sharpened, hardened steel tool, that requires minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (mm ²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
568	cable cutters	35	210	60	20	0,5	240x60x25	SC

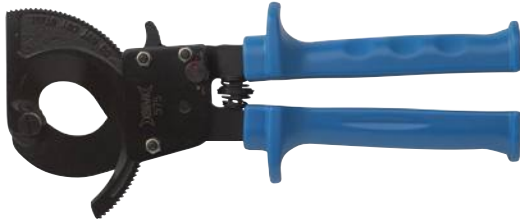
CABLE CUTTER - UP TO 60 mm²



High-precision sharpened, hardened steel tool, that requires minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (mm ²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
5681	cable cutters	60	230	50	20	0,5	240x60x25	SC

CABLE CUTTER - RACHETING UP - UP TO 32 mm



Entirely made of hardened steel, they come with plastic handles for a secure grip. They can be opened even during the cutting operation and have a locking mechanism for transport.

Code	Description	Cu/Al cable (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
575	cable cutters	32 max	240	100	40	0,7	250x110x50	SC

CABLE CUTTER - RACHETING UP - UP TO 50 mm




Entirely made of hardened steel, they come with plastic handles for a secure grip. They can be opened even during the cutting operation and have a locking mechanism for transport.

Code	Description	Cu/Al cable (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
576	cable cutters	50 max	280	110	40	1,1	290x120x50	SC

CABLE CUTTER - WITH LONG HANDLES - UP TO 120 mm²



Code	Description	Cu/Al cable (Ø mm)	Cu/Al cable (mm ²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
570	cable cutters	18 max	120	370	100	20	0,7	380x130x25	SC

CABLE CUTTER · WITH LONG HANDLES · UP TO 240 mm²


Tempered carbon steel blades, alloy handles with plastic grip.
High-precision sharpened, they require minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (Ø mm)	Cu/Al cable (mm ²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
571	cable cutters	30 max	240	610	160	40	1,9	620x170x45	SC

CABLE CUTTER · WITH LONG HANDLES · UP TO 400 mm²


Tempered carbon steel blades, alloy handles with plastic grip.
High-precision sharpened, they require minimal effort thanks to the optimal leverage of the handles and the shape of the blades.

Code	Description	Cu/Al cable (Ø mm)	Cu/Al cable (mm ²)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
572	cable cutters	37 max	400	810	170	45	3	820x180x50	SC

CUTTING TOOL · HYDRAULIC · MANUAL · UP TO 20 mm


- closed guillotine cut
- 180° adjustable head
- safety device to guarantee max working pressure
- release device to open the blades at the end of operation and in case of a wrong maneuver

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Steel cable (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
187	cable cutters / wire rope cutters	20 max	20 max	15 max	16 max	380	210	45	2,8	400x240x65	SA

CUTTING TOOL - HYDRAULIC - MANUAL - UP TO 40 mm



- closed guillotine cut
- 180° adjustable head
- safety device to guarantee max working pressure
- release device to open the blades at the end of operation and in case of a wrong maneuver

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Steel cable (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
188	cable cutters / wire rope cutters	40 max	25 max	15 max	16 max	580	160	50	5,3	630x170x60	SA

CUTTING TOOL - HYDRAULIC - MANUAL - UP TO 85 mm



- closed guillotine cut
- 180° adjustable head
- safety device to guarantee max working pressure
- release device to open the blades at the end of operation and in case of a wrong maneuver

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Steel cable (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
189	cable cutters	85 max	-	-	-	-	690	140	80	8	750x150x100	SA

CUTTING TOOL - BATTERY POWERED - IN-LINE - 55 KN


FORCE: 55 kN
CUTTING TIME: from 8 to 12 s
MAX PASSAGE: 25 mm
BATTERY: Stanley, Lítio, 18V 2.0Ah
USB SOCKET: Mini

- LED lighting of the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- on/off button with emergency saving function
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at cutting end for high user safety
- energy saving function for switching off the tool
- crimping speed improved by a high performance motor
- possibility to use 5.0Ah battery for an extended use
- quick opening & closing head
- interchangeable blades
- rotative head 180°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
37T055	cable cutters / wire rope cutters	128	75	400	3,3	471x415x116	VA



CUTTING CAPACITY	TYPE OF CABLES	MAX. HARDNESS	MAX. CUTTING Ø
Ropes	7x19 strands - steel	100 > 120 daN/mm ²	ø 15 > 16 mm
	7x37 strands - steel	130 > 145 daN/mm ²	ø 12 > 13 mm
Electrical conductors	Bare - copper/aluminum		300 mm ²
	Rigid multi-strand - copper/aluminum		ø 20 > 22 mm
	Semi-rigid multi-strand - copper/aluminum		ø 20 > 22 mm
Round bars	Copper	< 20 daN/mm ²	ø 20 > 22 mm
	Hard copper	20 > 28 daN/mm ²	ø 15 > 18 mm
	Aluminum	< 20 daN/mm ²	ø 20 > 25 mm
	Mild steel	42 > 45 daN/mm ²	ø 12 > 14 mm
Insulated cables	Depends on the thickness of insulation		150 > 240 mm ²
	Stainless steel	< 150 daN/mm ²	ø 8 > 10 mm

CUTTING TOOL - BATTERY POWERED - 130 kN



FORCE: 130 kN
CUTTING TIME: from 10 to 30 s
MAX PASSAGE: 45 mm
BATTERY: Stanley, Lithium, 18V 5.0Ah
USB SOCKET: Micro

EQUIPMENT

- ring LED to provide crimping cycle information and to lighten the workplace
- working trigger with motor stop function at the stroke
- release trigger
- ergonomic handles in bi-component plastic
- handling ring for transportation (strap) or safety cable
- USB connection for data analysis & preventive maintenance
- safety locking trigger
- protection membrane to ventilate the electronics keeping it safe from moisture and dust
- LED display panel for battery charge level, cycle conformity, maintenance
- electronic protection in case of overpressure
- quick motor stop function at cutting end for high user safety
- energy saving function for switching off the tool
- rimping speed improved by a high performance motor
- 2 hydraulic pump stages for improved fast advance
- copper, aluminum and steel cables/ropes/rods
- max passage up to \varnothing 45 mm
- cutting guillotine type
- locking pin
- interchangeable blades
- rotative heads 220°

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
38T130	cable cutters / wire rope cutters	505	75	330	8,65	594x494x149	VA



CUTTING CAPACITY	TYPE OF CABLES	MAX. HARDNESS	MAX. CUTTING \varnothing	
Conductors/Ropes	Copper	< 40 daN/mm ²	\varnothing 45 mm	
	Aluminum	< 20 daN/mm ²	\varnothing 45 mm	
	Almelec	< 34 daN/mm ²	\varnothing 45 mm	
	Steel		< 180 daN/mm ²	7 x \varnothing 3,0 (= \varnothing 9,0)
				19 x \varnothing 2,1 (= \varnothing 10,5)
				19 x \varnothing 2,3 (= \varnothing 11,5)
	Multi-steel strands	< 180 daN/mm ²	\varnothing 18 (quantità di conduttori: 200)	
	ACSR (Aluminum conductor steel-reinforced cable)		< 180 daN/mm ²	26 x \varnothing 2,50 + 7 x \varnothing 1,95 (= \varnothing 15,85)
				26 x \varnothing 3,06 + 7 x \varnothing 2,38 (= \varnothing 19,38)
				26 x \varnothing 3,60 + 7 x \varnothing 2,80 (= \varnothing 22,80)
		54 x \varnothing 3,50 + 19 x \varnothing 2,10 (= \varnothing 31,50)		
		54 x \varnothing 4,36 + 19 x \varnothing 2,62 (= \varnothing 39,20)		
Bars	Steel	< 60 daN/mm ²	\varnothing 20	
		< 42 daN/mm ²	\varnothing 22	
	Copper	< 30 daN/mm ²	\varnothing 33	
		< 25 daN/mm ²	\varnothing 35	
Aluminum	< 16 daN/mm ²	\varnothing 45		

ACCESSORIES • FOR BATTERY POWERED TOOL


Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)
39B2AH	Rechargeable battery Stanley 18V Li-ion 2.0 Ah Charge time: 40 min Compatibility: 37A055, 37T055	115	75	45	0,36
39B5AH	Rechargeable battery Stanley 18V Li-ion 5.0 Ah Charge time: 80 min Compatibility: 37A055, 37T055, 38A062, 38A130, 38A130L, 38T130	115	75	65	0,62
39C220	Stanley battery charger for Stanley batteries, 220V AC powered	180	120	80	0,54

DRILLERS

PUNCHER - DIAMETER 6 mm



- tool with wide opening that allows for drilling in the corners, even if there are edges
 - cast aluminum body and handle make the device very light
 - regrindable and interchangeable hardened steel punch
- Applications: fastening and joining of cable ducts, drilling for rivets, etc.
Not suitable for stainless steel.

Code	Description	Diameter (Ø mm)	For steel sheets with max thickness (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
18506	puncher	6	1.2	230	120	25	0,36	265x140x50	SC
18516	spare punch	6							

PUNCHER - DIAMETER 8 mm



- tool with wide opening that allows for drilling in the corners, even if there are edges
 - cast aluminum body and handle make the device very light
 - regrindable and interchangeable hardened steel punch
- Applications: fastening and joining of cable ducts, drilling for rivets, etc.
Not suitable for stainless steel.

Code	Description	Diameter (Ø mm)	For steel sheets with max thickness (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
18508	puncher	8	0.8	230	120	25	0,36	265x140x50	SA
18518	spare punch	8							

PUNCHING TOOL · HYDRAULIC · MANUAL


FORCE: 55 kN

PUNCHER DIES: T series, Q series and R series

PUNCH CONNECTION THREAD: M16

MAXIMUM PUNCHING DIMENSIONS: • round punching: 72 mm (48 mm for inox)

• square punching: 68 mm x 68 mm

• rectangular punching: 46 mm x 92 mm

MAXIMUM PUNCHING THICKNESS: • iron sheet: max 3 mm

• ASI inox 304 steel sheet: max 2 mm

• aluminum and plastic material: max 5 mm

HOW TO USE: • make the hole on the sheet with the drill

• pass the guide pin through the pre-drilled hole

• assembly the die and the punch on both sides of the sheet

• perform the punching

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	VA
185	Hand hydraulic punching press complete with carrying case	360	120	50	2,7	450x300x100	VA
1856	Punching press kit complete with • BM 185 manual hydraulic punching press with carrying case • round punchers Ø 15.5 - Ø 19.5 - Ø 22.5 - Ø 26.5 - Ø 30.5 • guide pin Ø 11	360	120	50	2,7	450x300x100	VA

PUNCHERS - ROUND (SERIES T)



COMPATIBILITY: • BM 185, BM 1856 (manual hydraulic punching tools) for Ø up to 92 mm
• BM 200F (punching head for BM 200 manual hydraulic multi-head) for Ø up to 92 mm
• BM 265 (punching head for pump)

PUNCHER AND PIN MATERIAL: cemented steel

PIN THREAD: M16

Code	Puncher Ø (mm)	Suitable for	Compatible pin	pin Ø (mm)	Pilot hole (mm)
T1550	15,5	PG 9	301	11	11.5
T1600	16,2	M 16	301	11	11.5
T1700	17	G 3/8"	301	11	11.5
T1950	19,5	PG 11	301	11	11.5
T2000	20,4	M 20	301	11	11.5
T2100	21	PG 13.5	301	11	11.5
T2250	22,5	PG 16	301	11	11.5
T2400	24	G 5/8"	301	11	11.5
T2550	25,4	M 25	301	11	11.5
T2650	26,5	G 3/4"	301	11	11.5
T2850	28,5	PG 21	301	11	11.5
T3050	30,5		301	11	11.5
T3250	32,5	M 32	302	16	17
T3500	35		302	16	17
T3850	38,5	PG 29	302	16	17
T4000	40,5	M 40	302	16	17
T4200	42		302	16	17
T4500	45		302	16	17
T4800	48	PG 36	302	16	17
T5050	50,5	M 50	302	16	17
T5400	54	PG 42	302	16	17
T5550	55,5		302	16	17
T5700	57		302	16	17
T6050	60,5	PG 48	302	16	17
T6200	62		302	16	17
T6500	65	M 63	302	16	17
T7050	70,5		302	16	17
T7200	72		302	16	17
T7500	75		303	22	22.5
T8050	80,5		303	22	22.5
T9100	91		303	22	22.5
T1050	105		304	27	28.5
T1150	115		304	27	28.5
T1200	120		304	27	28.5
T1300	130		304	27	28.5
T1400	140		304	27	28.5
T1530	153		304	27	28.5

PINS FOR ROUND PUNCHERS (T SERIES)

PUNCHER AND PIN MATERIAL: cemented steel



Code	pin Ø (mm)	Pilot hole (mm)
301	11	11.5
302	16	17
303	22	22.5
304	27	28.5

PUNCHERS - SQUARE (SERIES Q)

COMPATIBILITY: • BM 185, BM 1856 (manual hydraulic punching tools) for side up to 68 mm
 • BM 200F (punching head for BM 200 manual hydraulic multi-head) for side up to 68 mm
 • BM 265 (punching head for pump)

PUNCHER AND PIN MATERIAL: cemented steel

PIN THREAD: M16



Code	Side (mm)	Compatible pin	pin Ø (mm)	Pilot hole (mm)
Q20	20	310	8	17
Q24	24	310	8	17
Q30	30	311	12	19.5
Q40	40	312	14	19.5
Q46	46	312	14	19.5
Q50	50	313	20	28.5
Q57	57	313	20	28.5
Q68	68	313	20	28.5
Q92	92	313	20	28.5
Q104	104	314	22	28.5
Q138	138	314	22	28.5
Q143	143	314	22	28.5
Q175	175	314	22	28.5

PINS FOR SQUARE PUNCHERS (Q SERIES)



PUNCHER AND PIN MATERIAL: cemented steel

Code	pin Ø (mm)	Pilot hole (mm)
310	8	17
311	12	19.5
312	14	19.5
313	20	28.5
314	22	28.5

PUNCHERS - RECTANGULAR (SERIES R)



COMPATIBILITY: • BM 185, BM 1856 (manual hydraulic punching tools) up to 46 x 72 mm
• BM 200F (punching head for BM 200 manual hydraulic multi-head) up to 46 x 72 mm
• BM 265 (punching head for pump)

PUNCHER AND PIN MATERIAL: cemented steel

PIN THREAD: M16

Code	Side (mm)	Compatible pin	pin Ø (mm)	Pilot hole (mm)
R2036	20x36	321	12	19.5
R2226	22x26	320	8	17
R2230	22x30	321	12	19.5
R2236	22x36	321	12	19.5
R2242	22x42	321	12	19.5
R2249	22x49	321	12	19.5
R2345	23x45	321	12	19.5
R2445	24x45	321	12	19.5
R2658	26x58	322	14	19.5
R2951	29x51	322	14	19.5
R2971	29x71	322	14	19.5
R3046	30x46	322	14	19.5
R3251	32x51	322	14	19.5
R3276	32x76	323	20	28.5
R3646	36x46	322	14	19.5
R3752	37x52	322	14	19.5
R3757	37x57	322	14	19.5
R3797	37x97	323	20	28.5
R3865	38x65	322	14	19.5
R4011	40x115	323	20	28.5
R4672	46x72	323	20	28.5

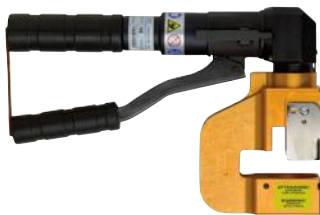
PINS FOR RECTANGULAR PUNCHERS (R SERIES)

PUNCHER AND PIN MATERIAL: cemented steel



Code	pin Ø (mm)	Pilot hole (mm)
320	8	17
321	12	19.5
322	14	19.5
323	20	28.5
324	22	28.5

DUCT PUNCHER · HYDRAULIC · MANUAL



FORCE: 27 kN

MAXIMUM PUNCHING THICKNESS: • iron sheet: max 1.2 mm
• ASI inox 304 steel sheet: max 1 mm

FIELD OF USE: steel or plastic cable ducts

HOW TO USE: • pre-hole is not needed
• it allows the punching of ducts installed only 16 cm from the wall with diameters up to 40 mm

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
168	Manual hydraulic cable duct puncher. Complete with punchers Ø 16.2 - 20.4 - 25.5 - 32.5 - 40.5 mm and carrying box.	300	200	50	2,8	480x390x140	VA

MULTI-HEAD

MULTI-HEAD HYDRAULIC PRESS WITH CRIMPING, CUTTING AND PUNCHING HEADSTOCKS



FORCE: 50 kN

CRIMPING HEAD: see 200A head

CABLE/WIRE ROPE CUTTERS TOOL HEAD: see 200T head

PUNCHING HEAD: see 200F head

- interchangeable heads
- two pistons advancement speeds, one for quick approach, the other for operation
- automatic end-of-work release device to guarantee crimping/cutting/punching quality
- release device activated by a button to open the tool at the end of the operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
200	Kit includes: - hydraulic press - 200A crimping head + dies-set for uninsulated terminals 10 ÷ 185 mm ² - 200T cable/wire rope cutter head - 200F metal sheets driller - carrying case	370	125	50	8,3	480x380x180	VA
200PA	Kit includes: - hydraulic press - 200A crimping head + dies-set for uninsulated terminals 10 ÷ 185 mm ² - carrying case	430	120	50	3,7	480x380x180	VA
200PF	Kit includes: - hydraulic press - 200F metal sheets driller - carrying case	400	120	60	3,8	480x380x180	VA
200PT	Kit includes: - hydraulic press - 200T cable/wire rope cutter head - carrying case	500	120	60	5	480x380x180	VA

CRIMPING HEADSTOCK · FOR MULTI-HEAD PRESS · UP TO 185 mm² (SERIES 82)
CRIMPING FORCE AT DIE LEVEL: 50 kN

DIES: 82 series

FIELD OF USE: terminals

- uninsulated from 10 to 240 mm² (185 mm² for DIN)
- uninsulated class 6 and DIN from 10 to 185 mm²
- medium voltage from 25 to 150 mm²
- aluminum from 16 to 150 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 150 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 35 mm²
- end-sleeve from 50 to 150 mm²



- lateral snap opening for quick and easy die positioning
- the crimping head must be combined with BM 200 manual hydraulic multi-head tool
- it can be combined with a pump using a BM 200CC adapter

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
200A	50 kN crimping head for BM 200 manual hydraulic multi-head tool including dies-set for uninsulated terminals 10 ÷ 185 mm ²	130	70	60	1,5	NA	SC

SERIE82

CUTTING HEADSTOCK · FOR MULTI-HEAD PRESS · UP TO 32 mm
FORCE: 50 kN


- closed guillotine cut
- for operation the multi-head press must be combined with BM 200 manual hydraulic multi-head tool
- it can be combined with a pump using BM 200CC adapter

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
200T	cable cutters / wire rope cutters tool head	32 max	25 max	22 max	16 max	190	100	40	2,8	NA	SC

PUNCHING HEADSTOCK · FOR MULTI-HEAD PRESS



PUNCHER DIES: T series, Q series and R series

MAXIMUM PUNCHING DIMENSIONS:

- round punching: 60,5 mm
- square punching: 50 mm x 50 mm
- rectangular punching: 65 mm x 38 mm

MAXIMUM PUNCHING THICKNESS:

- iron sheet (max 3mm)
- steel sheet (max 1.5mm)

HOW TO USE:

- insert the head into BM 200 manual hydraulic multi-head tool
- make the hole on the sheet with the drill
- pass the guide pin through the pre-drilled hole
- assembly the die and the punch on both sides of the sheet
- perform the punching

FEATURES:

- to use the crimping head it is necessary to combine BM 200 manual hydraulic multi-head tool
- with BM 200CC adaptor, it is possible to combine a pump

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
200F	Hydraulic punching head for manual multi-head hydraulic tool BM 200	90	60	60	1,6	NA	SC

ACCESSORIES FOR BM 200 · ADAPTOR FOR PUMPS



COMPATIBILITY: usable heads

- 200A (crimping)
- 200T (cutting)
- 200F (punching)

- usable pumps
- 1600 (pedal hydraulic)
 - 162 (pneumatic-hydraulic)
 - 163 (electrohydraulic)

- it allows the heads of the BM 200 manual hydraulic multi-head press to be used with pumps

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
200CC	Adaptor	140	60	60	1	NA	SC

PUMPS AND HEADSTOCKS

CRIMPING TOOL - PNEUMATIC



OPERATING PRESSURE: 5-6 bar

OUTPUT FORCE: 1.3 kN at 5 bar

Pneumatic crimping tool with foot control complete with 534D die.

Crimping tool particularly suitable when a high degree of productivity in crimping is required. The dies are easy to change and work at a pressure of 6 bar. With foot control.

Code	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1661	225	135	90	2,7	350x250x300	SC

SERIE5

DIES - SERIES 5 - FOR BM 1661



Code	Compatible positioner	Terminal type	Section (mm ²)	Section (AWG/MCM)
534D		dies for insulated terminals	0.5 ÷ 6	(20-10)
535D		die for uninsulated copper terminals	0.5 ÷ 10	(20-8)
531D	16187, 16250	die for uninsulated open barrel brass terminals	0.5 ÷ 6	(20-10)
16187		positioner for die 531D - tab size 4,8 mm		
16250		positioner for die 531D - tab size 6,3 mm		
532D		die for quick-connect female flag insulated terminals	0.5 ÷ 2.5	(20-14)
537D		die for end-sleeve terminals	0.5 ÷ 4	(20-12)
539D		die for end-sleeve terminals	6 ÷ 16	(10-6)
500D		die for cable cutter		
543D		die for coaxial connectors RG 58-59		

SERIE5

HYDRAULIC FOOT-PUMP



PRESSURE:max 700 bar

COMPATIBILITY: usable heads
 • 283, 284, 286, 270 (crimping)
 • 287, 288, 289 (cutting)
 • 265, 267, 263 (drilling)

DRIVE: foot-pump

- high pressure flexible tube with quick coupling female connector with automatic locking
- two working speeds to have two piston advancement speeds, one for quick approach the other for operation
- automatic end-of-work release device to guarantee punching quality
- release device activated by a button to open the tool at the end of operation and in case of a wrong maneuver

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
1600	Hydraulic foot-pump	460	130	400	13	500x150x250	SC

ACCESSORIES FOR BM 1600 - CASE



COMPATIBILITY: pump
 • 1600

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
161	Metallic carrying case for 1600 with side handles and opening on the top	650	200	250	NA	NA	NA

PNEUMATIC HYDRAULIC PUMP



PRESSURE:max 700 bar

COMPATIBILITY: usable heads
 • 283, 284, 286, 270 (crimping)
 • 287, 288, 289 (cutting)
 • 265, 267, 263 (drilling)

DRIVE: foot control

- high pressure flexible tube with quick coupling female connector with automatic locking
- automatic end-of-work release device to guarantee punching quality
- release device activated by a button to open the tool at the end of operation and in case of a wrong maneuver
- for operation it must be connected to an air compressed source of 6-10 bar

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
162	Pneumatic hydraulic pump	300	160	200	4	400x160x350	SC

ELECTRO HYDRAULIC PUMP



PRESSURE: max 700 bar

COMPATIBILITY: usable heads

- 283, 2833, 284, 284L, 286, 270 (crimping)
- 287, 288, 289 (cutting)
- 265, 267E, 263 (drilling)

DRIVE: accident-prevention foot control

- high pressure flexible tube with quick coupling female connector with automatic locking
- automatic end-of-work release device to guarantee punching quality
- automatic release device at the end of operation
- for operation it needs a 220V power supply

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
163	Electrohydraulic pump	700	520	270	41	NA	NA

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 240 mm² (SERIES 83)



CRIMPING FORCE AT DIE LEVEL: 60kN

DIES: 83 series

FIELD OF USE: terminals

- uninsulated from 10 to 300 mm²
- uninsulated class 6 from 10 to 185 mm²
- DIN standard from 10 to 240 mm²
- NFC standard from 4 to 240 mm²
- medium voltage from 25 to 300 mm²
- aluminum from 16 to 185 mm²
- bimetallic from 16 to 150 mm²
- bimetallic DIN from 16 to 185 mm²
- insulated from 10 to 95 mm²
- C shunt from 10 to 95 mm²
- end-sleeve from 50 to 150 mm²

- lateral snap opening for quick and easy die positioning
- with male quick coupling fitting with automatic locking
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
2833	60 kN crimping head for pump	230	70	55	1,76	295x155x110	VA

SERIE83

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 400 mm² (SERIES 84)



CRIMPING FORCE AT DIE LEVEL: 120 kN

DIES: 84 series

FIELD OF USE: terminals

- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

- “C” opening for easy joint crimping (the maximum conductor section depends on cable insulation thickness)
- bigger “C” opening in 284L version to crimp big section joints
- with male quick coupling fitting with automatic locking
- for operation it must be combined a pump with an operating pressure of 700 bar

Code	Description	Max “C” opening (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
284	120 kN crimping head for pump	25	210	130	70	3,6	440x270x130	VA
284L	120 kN crimping head for pump	42	250	130	70	5,3	440x270x130	VA

SERIE84

CRIMPING HEADSTOCK · FOR PUMPS · UP TO 400 mm² (SERIES 86, SERIES 84)



CRIMPING FORCE AT DIE LEVEL: 120 kN

DIES: 84 series and 86 series

FIELD OF USE: 84 series for terminals

- uninsulated from 10 to 400 mm² (300 mm² for DIN)
- uninsulated class 6 from 10 to 185 mm²
- medium voltage from 25 to 400 mm²
- aluminum from 16 to 240 mm²
- bimetallic from 16 to 300 mm²
- bimetallic DIN from 16 to 300 mm²
- insulated from 10 to 240 mm²
- C shunt from 10 to 150 mm²
- end-sleeve from 50 to 150 mm²

86 series for deep indent of terminals

- aluminum from 35 to 240 mm²

- with 86 series dies, it allows aluminum terminal to be crimped through deep indent
- 18694 adapter is required to use the 84 series dies
- with male quick coupling fitting with automatic locking
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
286	120 kN deep indent crimping head for pump	280	90	80	4,5	470x270x130	VA

SERIE86 SERIE84

CRIMPING HEADSTOCK - FOR PUMPS - UP TO 630 mm² (SERIES 70)

CRIMPING FORCE AT DIE LEVEL: 230 kN

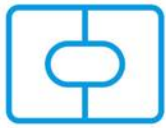
FIELD OF USE: terminals

- uninsulated terminals from 10 to 630 mm²
- C terminals da 16 a 185 mm²

- deep indent
- section adjustment nut
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Section (mm ²)	Section (AWG/MCM)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
270	230 kN crimping head for pump, with dies for uninsulated terminals from 10 to 630 mm ²	10 ÷ 630	(8-1250)	350	120	120	7,5	400x150x150	VA

SERIE70

DIES SERIES 70


Code	Conductor sections for C shunts (mm ²)	Terminal type
716	35-35	for C shunts
735	16-16, 25-25	for C shunts
770	50-50, 70-70	for C shunts
795	95-95, 120-120, 150-185	for C shunts

SERIE70

CUTTING HEADSTOCK - FOR PUMPS - UP TO 40 mm



- closed guillotine cut
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Steel cable (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
287	cable cutters / wire rope cutters tool head	40 max	25 max	25 max	20 max	16 max	310	110	70	4	450x180x100	SC

CUTTING HEADSTOCK - FOR PUMPS - UP TO 85 mm



- closed guillotine cut
- protections on the guillotine sides
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Steel cable (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
288	cutting tool head	85 max	-	-	-	-	450	170	100	7	450x190x120	SC

CUTTING HEADSTOCK - FOR PUMPS - UP TO 110 mm



- closed guillotine cut
- protections on the guillotine sides
- for operation it must be combined with a pump with an operating pressure of 700 bar

Code	Description	Cu/Al cable (Ø mm)	Cu rod (Ø mm)	Al rod (Ø mm)	Steel cable (Ø mm)	Iron rod (Ø mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
289	cutting tool head	100 max	-	-	-	-	550	190	120	9	470x270x130	SC

PUNCHING HEADSTOCK · FOR PUMPS



FORCE: 160 kN

PUNCHER DIES: T series, Q series and R series

PUNCH CONNECTION THREAD: M16

MAXIMUM PUNCHING THICKNESS: • iron sheet (max 3 mm)
• steel sheet (max 1.5 mm)

HOW TO USE: • insert the head into a pump multi-head tool
• make the hole on the sheet with the drill
• pass the guide pin through the pre-drilled hole
• assembly the die and the punch on both sides of the sheet
• perform the punching

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
265	Hydraulic punching head for pump	210	80	80	3	250x140x100	SC

BAR BENDING/DRILLING · HEADSTOCKS · FOR PUMPS



FIELD OF USE: • bending and punching of copper bars sized 12x110 mm max

FEATURES: • equipped with a protractor that guarantees the uniformity of the operations with bars of same dimensions

Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Pack size LxWxH (mm)	
267	Bar bending/drilling head for BM 1600 hydraulic foot-pump and BM 162 pneumatic/hydraulic pump	580	520	300	6	600x500x500	SC
267E	Bar bending/drilling head for BM 163 electrohydraulic pump	580	520	300	6	600x500x500	SC

PUNCHERS FOR BAR BENDING-DRILLING HEADSTOCK

COMPATIBILITY: BM 267 and BM 267E

SUITABLE FOR: punching

Code	Hole shape	Through hole	
26708	round	9	SA
26710	round	11	SA
26714	round	14	SA
26718	round	18	SA
26722	round	22.5	SA
26711	eyelet	11 x 17	SA
26715	eyelet	9 x 15	SA
26719	eyelet	13.5 x 19	SA
26717	eyelet	17.5 x 22	SA





ELECTRICAL TAPES

PVC ELECTRICAL TAPE

pag. 298

EPR SELF-AMALGAMATING
ELECTRICAL TAPE

pag. 301

ELECTRICAL TAPE - PVC - 0.15 THICKNESS



MATERIAL: PVC
RESISTANT TO: acids, weathering, corrosion, alkalis, oil, humidity
OPERATING TEMPERATURE: 0°C - +90°C
TENSILE STRENGTH: 28 N/cm equivalent to 18.6 N/mm²
ELONGATION: 200 %
ADHESION TO STEEL: 2.2 N/cm
ADHESION TO BACKING: 2 N/cm
DIELECTRIC STRENGTH: 45 kV/mm
ACCORDING TO STD.: IEC 60454-2
FLAMMABILITY: flame retardant
CLASSIFICATION: EN 60454-3-1-5/F-PVCP/90
ACCORDING TO STD.: IEC 60454-2

ELECTRICAL TAPES

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
ESB1525BI	White	0,15	15	25	10/100
ESB1525BL	Blue	0,15			10/100
ESB1525GI	Yellow	0,15			10/100
ESB1525GR	Grey	0,15			10/100
ESB1525GV	YellowGreen	0,15			10/100
ESB1525MA	Brown	0,15			10/100
ESB1525NE	Black	0,15			10/100
ESB1525RO	Red	0,15			10/100
ESB1525VE	Green	0,15			10/100
ESB1925BI	White	0,15			19
ESB1925BL	Blue	0,15	10/100		
ESB1925GI	Yellow	0,15	10/100		
ESB1925GR	Grey	0,15	10/100		
ESB1925GV	YellowGreen	0,15	10/100		
ESB1925MA	Brown	0,15	10/100		
ESB1925NE	Black	0,15	10/100		
ESB1925RO	Red	0,15	10/100		
ESB1925VE	Green	0,15	10/100		
ESB2525BI	White	0,15	25	25	
ESB2525BL	Blue	0,15			8/80
ESB2525GI	Yellow	0,15			8/80
ESB2525GR	Grey	0,15			8/80
ESB2525GV	YellowGreen	0,15			8/80
ESB2525MA	Brown	0,15			8/80
ESB2525NE	Black	0,15			8/80
ESB2525RO	Red	0,15			8/80
ESB2525VE	Green	0,15			8/80
ESB1510BI	White	0,15			15
ESB1510BL	Blue	0,15	10/200		
ESB1510GI	Yellow	0,15	10/200		
ESB1510GR	Grey	0,15	10/200		
ESB1510GV	YellowGreen	0,15	10/200		
ESB1510MA	Brown	0,15	10/200		
ESB1510NE	Black	0,15	10/200		
ESB1510RO	Red	0,15	10/200		
ESB1510VE	Green	0,15	10/200		



**FLAME
RETARDANT**

ELECTRICAL TAPE · PVC · 0.18 THICKNESS


MATERIAL: PVC

RESISTANT TO: acids, weathering, corrosion, alkalis, oil, humidity

OPERATING TEMPERATURE: 0°C - +80°C

TENSILE STRENGTH: 28 N/cm equivalent to 15.5 N/mm²

ELONGATION: 200 %

ADHESION TO STEEL: 2.2 N/cm

ADHESION TO BACKING: 2.2 N/cm

DIELECTRIC STRENGTH: 7000 V equivalent to 38 kV/mm

ACCORDING TO STD.: ASTM-D-1000

FLAMMABILITY: flame retardant

ACCORDING TO STD.: UL 510

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
ESC1920NE	Black	0,18	19	20	10/100



file n° E 492005



**FLAME
RETARDANT**

ELECTRICAL TAPE · PVC · 0.18 THICKNESS FOR LOW AND HIGH TEMPERATURES



MATERIAL: PVC
HIGHLY RESISTANT TO: acids, weathering, corrosion, alkalis, oil, humidity
OPERATING TEMPERATURE: -18°C - +105°C
TENSILE STRENGTH: 35 N/cm equivalent to 19.4 N/mm²
ELONGATION: 300 %
ADHESION TO STEEL: 3.1 N/cm
ADHESION TO BACKING: 2.7 N/cm
DIELECTRIC STRENGTH: 10000 V equivalent to 55,5 kV/mm
ACCORDING TO STD.: ASTM-D-1000
FLAMMABILITY: flame retardant
ACCORDING TO STD.: UL 510

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
ETA1920NE	Black	0,18	19	20	1/100

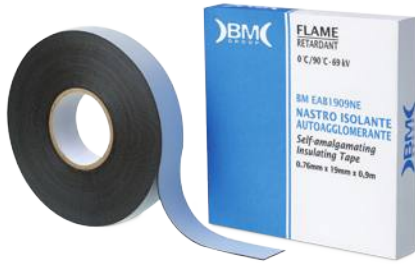


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+105°C
-18°C

**FLAME
RETARDANT**

ELECTRICAL TAPE - EPR SELF-AMALGAMATING

MATERIAL: EPR

RESISTANT TO: ozone, UV rays

EXCELLENT RESISTANCE TO: chemicals, corrosion, humidity

EMERGENCY OVERLOAD TEMPERATURE: 130 °C

ACCORDING TO STD.: ASTM-D-4388

OPERATING TEMPERATURE: -40°C - +90°C

TENSILE STRENGTH: 2.4 N/mm² (350psi)

ELONGATION: 750 %

DIELECTRIC STRENGTH: 29.5 kV/mm (750 V/mil)

ACCORDING TO STD.: ASTM-D-4325

Code	Color	Thickness (mm)	Height (mm)	Length (m)	
EAB1909NE	Black	0,76	19	9	1/60

APPLICATIONS

Lining and insulation of power cable joints up to 69 kV.

Stress cones and coating of power cable terminations up to 35 kV.







CONDUIT FIXINGS

IP67 ACCESORIES	pag. 304
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CONDUIT FIXING	pag. 308
ACCESSORIES FOR SPIRAL CONDUITS	pag. 309

IP67 ACCESSORIES



OUR STRENGTH POINT

What makes BM IP67 fixings stand out from the crowd is the **double lip seal** that guarantees unique advantages in all phases of the project: choice of material, installation, use, modification of the system, and material recovery.

1. CHOICE OF MATERIAL: conduit fixings can be used with any conduit that complies with the standards. The gasket adapts to the variations of shape and diameter typical of plastic tube bars in the range allowed by the standard.

2. INSTALLATION:

the conduit's insertion with a slight pressure allows for a fast and effortless connection. After the insertion, the gasket keeps the conduit hanging, leaving the installer's hands free for other operations.

3. OPERATION: the gasket allows for thermal expansion in the length of conduits within a range from -5°C to +60°C.

4. MODIFICATIONS: the disengagement with a slight traction and rotation allows rapid changes to the system or the recovery of the fixing. The gasket keeps the sealing characteristics unchanged over time so that the fixing can be reused.



CE IP67

For more information about this product check out the following pages.

IP67 ACCESSORIES · CONDUIT-BOX FITTING · TS



It connects a rigid conduit to a box or board. Complete with nut and flat gasket.

MATERIAL: rigid PVC

PITCH: metric

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Metric thread (EN 60423)	Conduit diameter (mm)	
TP7TS16	Grey RAL 7035	M 16 x 1.5	16	10/250
TP7TS20	Grey RAL 7035	M 20 x 1.5	20	10/400
TP7TS25	Grey RAL 7035	M 25 x 1.5	25	10/300
TP7TS32	Grey RAL 7035	M 32 x 1.5	32	10/200
TP7TS40	Grey RAL 7035	M 40 x 1.5	40	5/40
TP7TS50	Grey RAL 7035	M 50 x 1.5	50	5/25



IP67

IP67 ACCESSORIES · 90 DEGREE ELBOW CONDUIT · CR


It connects two rigid conduits of the same diameter, forming a 90 degree curve.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP7CR16	■ Grey RAL 7035	16	10/100
TP7CR20	■ Grey RAL 7035	20	10/140
TP7CR25	■ Grey RAL 7035	25	10/90
TP7CR32	■ Grey RAL 7035	32	5/50
TP7CR40	■ Grey RAL 7035	40	5/50
TP7CR50	■ Grey RAL 7035	50	5/30


IP67
IP67 ACCESSORIES · CONDUIT-CONDUIT FITTING · TT


It connects two rigid conduits of the same diameter.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP7TT16	■ Grey RAL 7035	16	10/180
TP7TT20	■ Grey RAL 7035	20	10/300
TP7TT25	■ Grey RAL 7035	25	10/220
TP7TT32	■ Grey RAL 7035	32	10/120
TP7TT40	■ Grey RAL 7035	40	5/50
TP7TT50	■ Grey RAL 7035	50	5/40


IP67

IP67 ACCESSORIES · CONDUIT-SHEATHING FITTING · TG · SAME DIAMETER



It connects a rigid conduit to a spiral sheathing.
The internal diameter of the system is the same of the sheathing.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67 conduit, IP65 sheathing

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	Sheathing diameter (mm)	
TP7TG16	Grey RAL 7035	16	16	10/100
TP7TG20	Grey RAL 7035	20	20	10/160
TP7TG25	Grey RAL 7035	25	25	10/120
TP7TG32	Grey RAL 7035	32	32	5/70
TP7TG40	Grey RAL 7035	40	40	5/40
TP7TG50	Grey RAL 7035	50	50	5/20



IP67

IP67 ACCESSORIES · CONDUIT-SHEATHING FITTING · TG · REDUCED DIAMETER



It connects a rigid conduit to a spiral sheathing.
The internal diameter of the system is the same of the sheathing.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP67 conduit, IP65 sheathing

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	Sheathing diameter (mm)	
TP7TG16/12	Grey RAL 7035	16	12	10/100
TP7TG20/16	Grey RAL 7035	20	16	10/160
TP7TG25/20	Grey RAL 7035	25	20	25/20



IP67

IP40 ACCESSORIES · JUNCTION SLEEVE · MA


Adaptable to conduit imperfections (oval shape, increased/reduced diameter within standard range).
 Easy and full insertion up to half-length to facilitate the passage of cables and probes.
 Better sealing thanks to its Trilo System joint.
 New design that allows for seamless joints between conduits.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP40

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP4MA16	Grey RAL 7035	16	20/300
TP4MA20	Grey RAL 7035	20	20/400
TP4MA25	Grey RAL 7035	25	20/240
TP4MA32	Grey RAL 7035	32	10/120
TP4MA40	Grey RAL 7035	40	5/80
TP4MA50	Grey RAL 7035	50	5/50


IP40
IP40 ACCESSORIES · 90 DEGREE ELBOW CONDUIT · CU


90 degree elbow conduit, narrow radius, for rigid conduits.

MATERIAL: rigid PVC

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP40

STANDARD: EN 61386-1, EN 61386-21

Code	Color	Conduit diameter (mm)	
TP4CU16	Grey RAL 7035	16	10/180
TP4CU20	Grey RAL 7035	20	10/220
TP4CU25	Grey RAL 7035	25	10/220
TP4CU32	Grey RAL 7035	32	5/120
TP4CU40	Grey RAL 7035	40	5/60
TP4CU50	Grey RAL 7035	50	5/35


IP40








CONDUITS FIXINGS · SPRING CLIP SADDLE · FS



Clip support for conduits. It is equipped with side mounting for installation in series and grooves for installation in line.

MATERIAL: with ABS

RESISTANCE TO FIRE: self-extinguishing

Code	Color	Conduit diameter (mm)	
TPZFS16	 Grey RAL 7035	16	100/800
TPZFS20	 Grey RAL 7035	20	100/1600
TPZFS25	 Grey RAL 7035	25	50/900
TPZFS32	 Grey RAL 7035	32	50/800
TPZFS40	 Grey RAL 7035	40	25/200
TPZFS50	 Grey RAL 7035	50	25/150




CONDUITS FIXINGS · COLLAR CLAMP FASTENER · FF



Collar clamp fastener.

MATERIAL: with polyamide

RESISTANCE TO FIRE: self-extinguishing

Code	Color	Conduit diameter (mm)	
TPZFF16/32	 Grey RAL 7035	16 ÷ 32	100/1000
TPZFF40/63	 Grey RAL 7035	40 ÷ 63	50/400

IP65 ACCESSORIES FOR SPIRAL CONDUITS · SWIVEL FITTING · METRIC THREAD · RGM/RGMN


Swivel straight fitting for spiral conduits.
Supplied with metric thread fixing nut.

MATERIAL: fireproof polypropylene

PITCH: metric

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP65

STANDARD: EN 61386-1, EN 61386-23

Code	Color	Metric thread (EN 60423)	Sheathing diameter (mm)	
TP5RGM10	Grey RAL 7035	M 12 x 1.5	10	10/150
TP5RGMN10	Black RAL 9005	M 12 x 1.5	10	10/150
TP5RGM12	Grey RAL 7035	M 16 x 1.5	12	10/150
TP5RGMN12	Black RAL 9005	M 16 x 1.5	12	10/150
TP5RGM16	Grey RAL 7035	M 20 x 1.5	16	10/100
TP5RGMN16	Black RAL 9005	M 20 x 1.5	16	10/100
TP5RGM20	Grey RAL 7035	M 25 x 1.5	20	10/70
TP5RGMN20	Black RAL 9005	M 25 x 1.5	20	10/70
TP5RGM25	Grey RAL 7035	M 32 x 1.5	25	10/40
TP5RGMN25	Black RAL 9005	M 32 x 1.5	25	10/40
TP5RGM32	Grey RAL 7035	M 40 x 1.5	32	5/25
TP5RGMN32	Black RAL 9005	M 40 x 1.5	32	5/25
TP5RGM40	Grey RAL 7035	M 50 x 1.5	40	5/20
TP5RGMN40	Black RAL 9005	M 50 x 1.5	40	5/20
TP5RGM50	Grey RAL 7035	M 63 x 1.5	50	5/15
TP5RGMN50	Black RAL 9005	M 63 x 1.5	50	5/15


IP65

IP65 ACCESSORIES FOR SPIRAL CONDUITS · SWIVEL FITTING · PG THREAD · RGP/RGPN


Swivel straight fitting for spiral conduits.
Supplied with PG thread fixing nut.

MATERIAL: fireproof polypropylene

PITCH: PG

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)


MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP65

STANDARD: EN 61386-1, EN 61386-23

Code	Color	PG thread (DIN 40430)	Sheathing diameter (mm)	
TP5RGP10	Grey RAL 7035	PG 9	10	10/160
TP5RGPN10	Black RAL 9005		10	10/160
TP5RGP12	Grey RAL 7035	PG 11	12	10/160
TP5RGPN12	Black RAL 9005		12	10/160
TP5RGP12/13	Grey RAL 7035	PG 13.5	12	10/160
TP5RGPN12/13	Black RAL 9005		12	10/160
TP5RGP14	Grey RAL 7035		14	10/100
TP5RGPN14	Black RAL 9005		14	10/100
TP5RGP16	Grey RAL 7035	PG 11	16	10/100
TP5RGPN16	Black RAL 9005		16	10/100
TP5RGP16/13	Grey RAL 7035	PG 13.5	16	10/100
TP5RGPN16/13	Black RAL 9005		16	10/100
TP5RGP16/16	Grey RAL 7035	PG 16	16	10/100
TP5RGPN16/16	Black RAL 9005		16	10/100
TP5RGP20	Grey RAL 7035	PG 21	20	10/70
TP5RGPN20	Black RAL 9005		20	10/70
TP5RGP22	Grey RAL 7035		22	10/60
TP5RGPN22	Black RAL 9005		22	10/60
TP5RGP25	Grey RAL 7035	PG 29	25	10/50
TP5RGPN25	Black RAL 9005		25	10/50
TP5RGP28	Grey RAL 7035		28	10/40
TP5RGPN28	Black RAL 9005		28	10/40
TP5RGP32	Grey RAL 7035	PG 36	32	5/20
TP5RGPN32	Black RAL 9005		32	5/20
TP5RGP35	Grey RAL 7035		35	5/20
TP5RGPN35	Black RAL 9005		35	5/20


IP65

IP65 ACCESSORIES FOR SPIRAL CONDUITS · SWIVEL FITTING · GAS THREAD · RGG/RGGN


Supplied with GAS thread fixing nut.

MATERIAL: fireproof polypropylene

PITCH: gas

RESISTANCE TO SHOCK: class 3 (>2 kg from 10 cm at -5 °C)

MIN. TEMPERATURE: class 2 (-5 °C)

MAX. TEMPERATURE: class 1 (+60°C)

RESISTANCE TO FIRE: self-extinguishing

GLOW WIRE TEST: pass at 850 °C

PROTECTION GRADE: IP65

STANDARD: EN 61386-1, EN 61386-23

Code	Color	Gas thread (ISO 228/1)	Sheathing diameter (mm)	
TP5RGG10	Grey RAL 7035	G 1/4"	10	10/140
TP5RGGN10	Black RAL 9005		10	10/140
TP5RGG12	Grey RAL 7035	G 3/8"	12	10/120
TP5RGGN12	Black RAL 9005		12	10/120
TP5RGG14	Grey RAL 7035	G 1/2"	14	10/100
TP5RGGN14	Black RAL 9005		14	10/100
TP5RGG16	Grey RAL 7035		16	10/100
TP5RGGN16	Black RAL 9005		16	10/100
TP5RGG20	Grey RAL 7035	G 3/4"	20	10/70
TP5RGGN20	Black RAL 9005		20	10/70
TP5RGG22	Grey RAL 7035		22	10/60
TP5RGGN22	Black RAL 9005		22	10/60
TP5RGG25	Grey RAL 7035	G 1"	25	10/40
TP5RGGN25	Black RAL 9005		25	10/40
TP5RGG28	Grey RAL 7035		28	10/40
TP5RGGN28	Black RAL 9005		28	10/40
TP5RGG32	Grey RAL 7035	G 1" 1/4"	32	5/25
TP5RGGN32	Black RAL 9005		32	5/25
TP5RGG35	Grey RAL 7035		35	5/20
TP5RGGN35	Black RAL 9005		35	5/20
TP5RGG40	Grey RAL 7035	G 1" 1/2"	40	5/20
TP5RGGN40	Black RAL 9005		40	5/20
TP5RGG50	Grey RAL 7035	G 2"	50	5/15
TP5RGGN50	Black RAL 9005		50	5/15


IP65





FIXINGS

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MANUAL NAILING	pag. 346

QUICK GUIDE TO FIXINGS

To facilitate and above all to make fixings quicker and safer, the quick guide provides the solution to any problem or doubt related to fixing. Light fixings are versatile and suitable for several applications on different supports. The tables take into account a number of factors, including support materials, applied loads, type of installation, types of anchor, drilling methods, and anchoring depth, all essential for determining the correct anchor or dowel.

LIGHT FIXINGS

UNIVERSAL



 Super-V EVO	●	●	●	●	●	●	○	○
 TNU	●	●	●	●	●	●	○	○
 TN	●	●	●	●	●	●	○	○
 TM	●	●	●	○	○			

FOR HOLLOW MATERIALS

 TNV	○	○	○	●	●	●	●	○
 AG				●	○		●	●
 AM				●	○		●	●

PLASTERBOARD

 VP							●	
 VM							●	

HEAVY DUTY FIXINGS

THROUGH FIXINGS



TMP		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TPP			<input checked="" type="radio"/>	<input type="radio"/>

NON-THROUGH



TMN		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TPN		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

CHEMICAL FIXINGS

ACCESSORIES



GN					<input checked="" type="radio"/>	<input checked="" type="radio"/>	
BFI		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
BF		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
GFA - GFO		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

Suitable application

Partially suitable application

TYPE OF MATERIALS

SOLID			PERFORATED		LOW RESISTANCE		
Solid bricks	Concrete	Natural stone	Perforated brick	Perforated blocks	Cellular concrete	Plasterboard	Panels/slabs

SUPER-V EVO UNIVERSAL WALL PLUGS

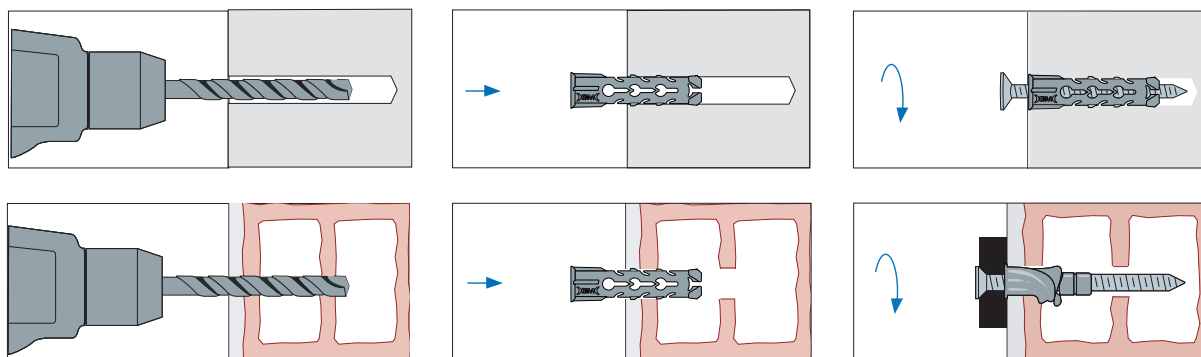
Thanks to its ability to adapt to different types of materials, the innovative **Super-V EVO** nylon plug allows extremely high holding with all-around security.

The particular inner profile and the technopolymer used allows the use of wood, chipboard and self-tapping screws. The design has been thoroughly engineered to prevent the plug from penetrating too much or rotating inside the hole during installation.

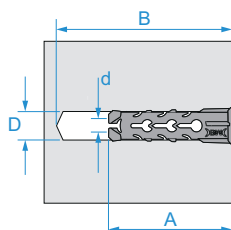
The **Super-V EVO** plug comes complete with a wide range of screws for chipboard, in different shapes and sizes, to solve any fixing issues in the various areas of use and to ensure highly reliable performance.

Super V EVO

FIXING STEPS



UNIVERSAL WALL PLUGS - SUPER-V EVO - NYLON WALL PLUG



WALL PLUG TYPE: Super-V EVO universal wall plugs

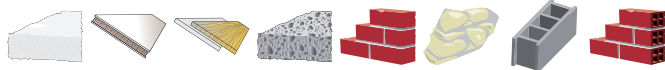
WALL PLUG MATERIAL: high resistance polyamide

WALL PLUG COLOR: grey

SCREW MATERIAL: galvanized steel

INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d (mm)	
F0001	5	25	35	3 ÷ 4	100/4000
F0002	6	30	40	4 ÷ 5	100/4000
F0003	8	40	50	4,5 ÷ 6	100/4000
F0004	10	50	70	6 ÷ 7	50/2000
F0005	12	60	80	7 ÷ 8	25/1000

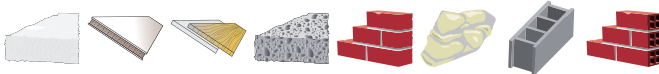


Super V EVO

UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH FLAT COUNTERSUNK HEAD PZ SCREW

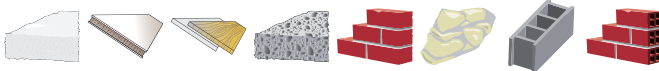
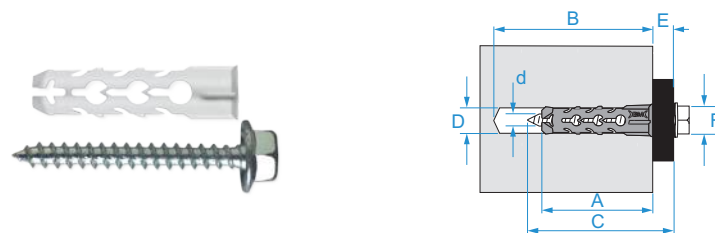

WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	E max (mm)	
F0011	5	25	35	4 x 30	5	100/3000
F0012	6	30	40	4,5 x 40	10	100/3000
F0013	8	40	50	5 x 50	10	50/1500
F0014	10	50	70	6 x 60	10	25/750


UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH CYLINDRIC FLANGED HEAD PH SCREW

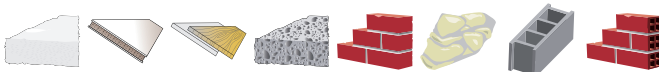

WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	E max (mm)	
F0021	5	25	35	4 x 30	5	100/3000
F0022	6	30	40	4,5 x 40	10	100/3000
F0023	8	40	50	5 x 50	10	50/1500


UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH HEXAGONAL HEAD SCREW


WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	E max (mm)	F (mm)	
F0073	8	40	50	5,5 x 45	5	10	50/1500
F0074	10	50	65	6,5 x 60	10	10	25/750

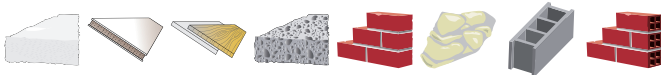


UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH ROUND HOOK



WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	H (mm)	
F0032	6	30	40	4,5 x 35	10	25/750



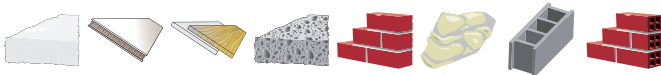
SuperV EVO

UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH EYE HOOK



WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	H (mm)	
F0052	6	30	40	4,5 x 35	13	25/750



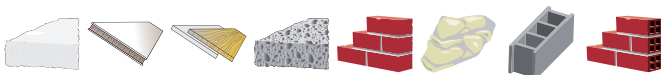
SuperV EVO

UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH SHORT HOOK

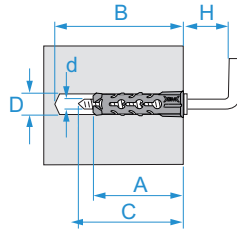


WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	H (mm)	
F0062	6	30	40	4,5 x 35	10	25/750

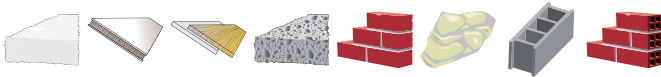
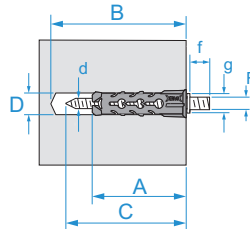


SuperV EVO

UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH L-HOOK


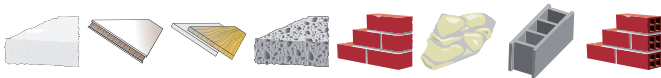
WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	H (mm)	
F0042	6	30	40	4,5 x 35	14	25/750


UNIVERSAL WALL PLUGS - SUPER-V EVO - WITH THREADED HEAD SCREW


WALL PLUG TYPE: Super-V EVO universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

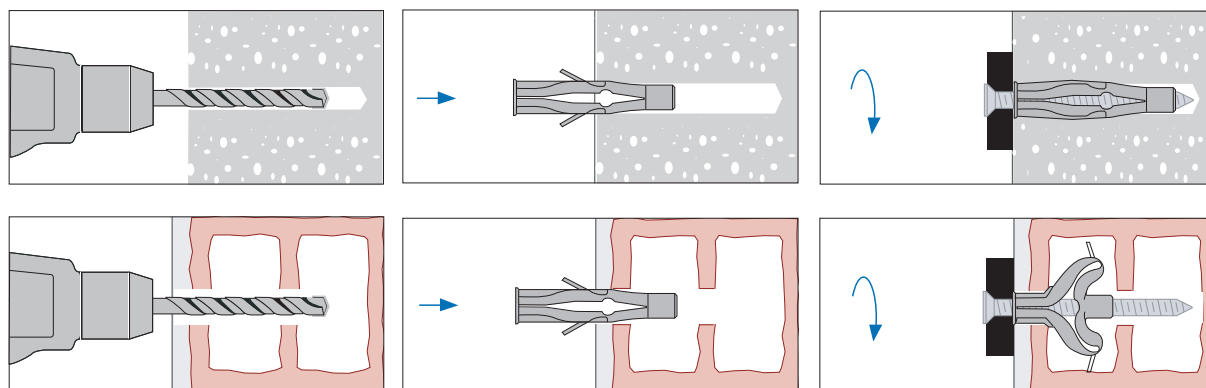
Code	D (mm)	A (mm)	B (mm)	d x C (mm)	g (mm)	F (mm)	f (mm)	
F0092	6	30	40	4,5 x 35	8,5	M6	6	25/750
F0093	8	40	50	5 x 45	11	M8	8	25/750



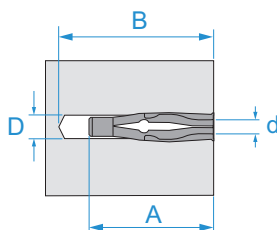
UNIVERSAL WALL PLUGS TNU

It is a universal nylon wall plug that provides excellent anchorage especially in hollow materials. The special shape of the wall plug ensures perfect hold thanks to the correct expansion and the umbrella-like opening. The side fins and the special collar prevent the wall plug from rotating on its axis while the lengthwise opening ensures excellent hold both in solid materials by expansion and in hollow spaces due to the bending of the central part. The internal profile of the plug allows the end of the screw to grip quickly, causing an immediate expansion.

FIXING STEPS

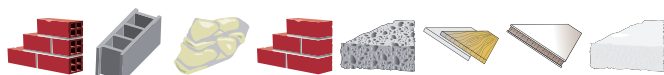


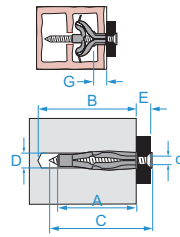
UNIVERSAL WALL PLUGS - TNU - NYLON WALL PLUG



WALL PLUG TYPE: TNU universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

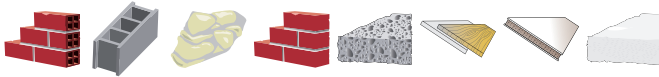
Code	D (mm)	A (mm)	B (mm)	d (mm)	
F0201	6	35	50	3.5 ÷ 4	100/5000
F0202	8	50	60	4 ÷ 5	100/10000
F0203	10	60	75	5 ÷ 6	100/1200



UNIVERSAL WALL PLUGS - TNU - WITH FLAT COUNTERSUNK HEAD PZ SCREW


WALL PLUG TYPE: TNU universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C (mm)	E max (mm)	G min (mm)	
F0211	6	35	50	3,5 x 45	10	5	100/2000
F0212	8	50	60	4,5 x 60	10	10	100/2000
F0213	10	60	75	6 x 80	10	10	100/1000



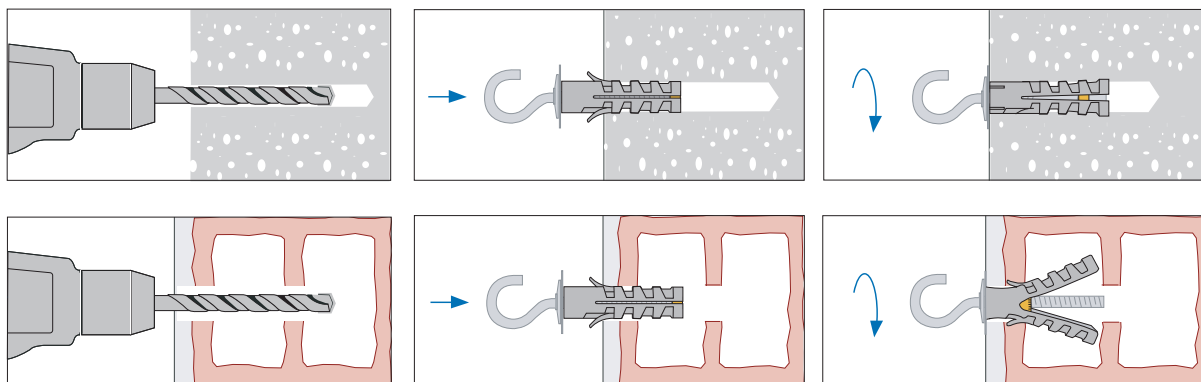
TASSELLI UNIVERSALI TN

Designed for lightweight fixings, universal TN wall plugs feature a wide range of pre-assembled galvanized steel accessories. The particular shape of the plug, provided with side fins that prevent rotation, guarantees an effective expansion.

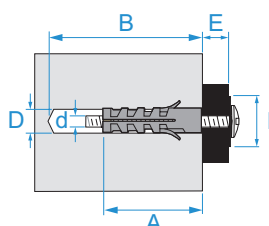
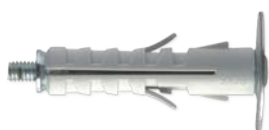
The brass cone that is drawn in by screwing the screw determines the expansion. The lengthwise openings allow for optimal adhesion even with hollow materials.



FIXING STEPS

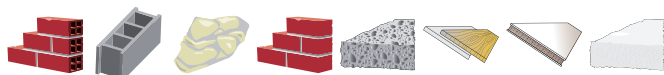


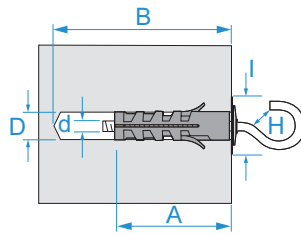
UNIVERSAL WALL PLUGS - TN - WITH RAISED HEAD SCREW



WALL PLUG TYPE: TN universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

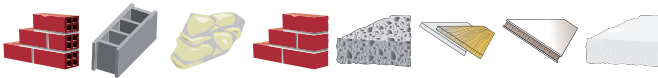
Code	D (mm)	A (mm)	B (mm)	d (mm)	I (mm)	E max (mm)	
F0311	9	40	50	M4	20	10	100/1000
F0312	12	45	55	M5	24	10	100/800



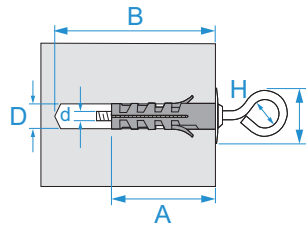
UNIVERSAL WALL PLUGS - TN - WITH ROUND HOOK


WALL PLUG TYPE: TN universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0331	9	40	50	M4	20	8	100/800
F0332	12	45	55	M5	24	8.8	50/500

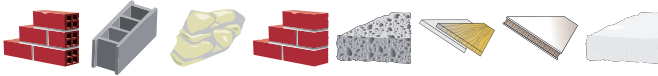


TN

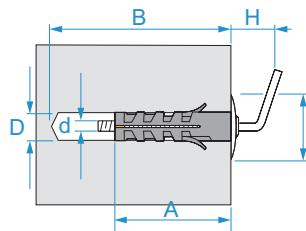
UNIVERSAL WALL PLUGS - TN - WITH EYE HOOK


WALL PLUG TYPE: TN universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0351	9	40	50	M4	20	13	100/800
F0352	12	45	55	M5	24	14	50/500

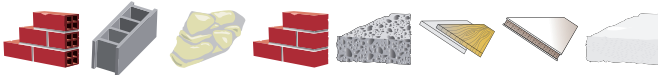


TN

UNIVERSAL WALL PLUGS - TN - WITH SHORT HOOK


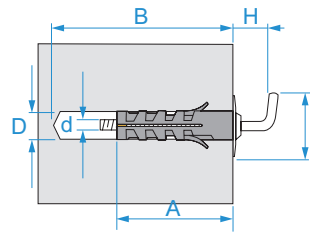
WALL PLUG TYPE: TN universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0361	9	40	50	M4	20	10	100/800
F0362	12	45	55	M5	24	12	100/800



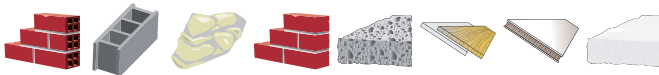
TN

UNIVERSAL WALL PLUGS - TN - WITH L-HOOK



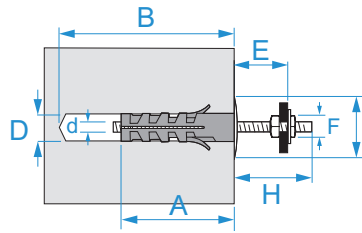
WALL PLUG TYPE: TN universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0341	9	40	50	M4	20	14	100/800
F0342	12	45	55	M5	24	16	100/800



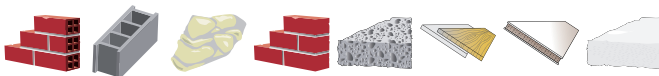
TN

UNIVERSAL WALL PLUGS - TN - WITH DOUBLE NUT



WALL PLUG TYPE: TN universal wall plugs
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	E max (mm)	H (mm)	F (mm)	
F0381	9	40	50	M4	20	35	35	7	100/800
F0382	12	45	55	M5	24	40	40	8	50/400



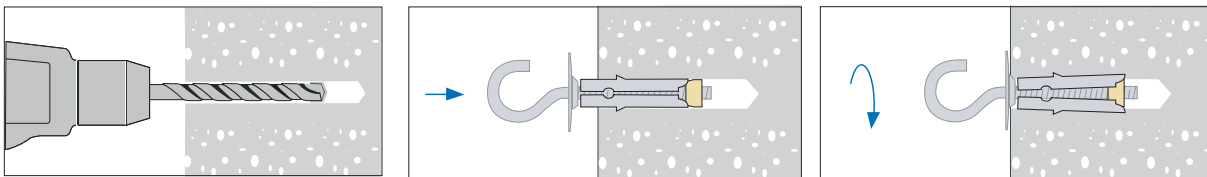
TN

HEAVY DUTY TM ANCHORS

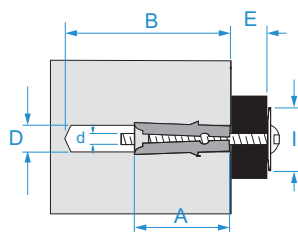
Designed for lightweight fixings, heavy duty TM anchors feature a wide range of pre-assembled galvanized steel accessories. The brass cone that is drawn in by screwing the screw determines the expansion of the anchor, while side fins prevent rotation. The shielding of the plug guarantees an effective expansion.



FIXING STEPS



HEAVY DUTY ANCHORS · TM · WITH RAISED HEAD SCREW

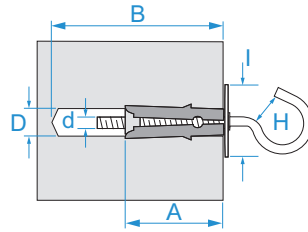


WALL PLUG TYPE: anchors TM
WALL PLUG MATERIAL: galvanized steel
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d (mm)	l (mm)	E max (mm)	
F0411	8	40	50	M4	20	10	100/1000
F0412	9	45	55	M5	24	10	100/800



HEAVY DUTY ANCHORS · TM · WITH ROUND HOOK



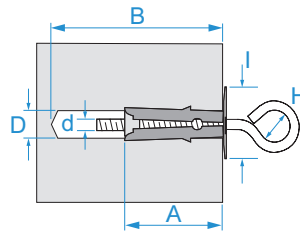
WALL PLUG TYPE: anchors TM
WALL PLUG MATERIAL: galvanized steel
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0431	8	40	50	M4	20	8	100/800
F0432	9	45	55	M5	24	8.5	50/500



TM

HEAVY DUTY ANCHORS · TM · WITH EYE HOOK



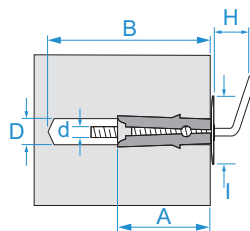
WALL PLUG TYPE: anchors TM
WALL PLUG MATERIAL: galvanized steel
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0451	8	40	50	M4	20	13	100/800
F0452	9	45	55	M5	24	14	50/500



TM

HEAVY DUTY ANCHORS · TM · WITH SHORT HOOK

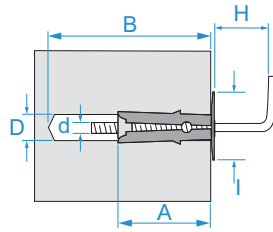


WALL PLUG TYPE: anchors TM
WALL PLUG MATERIAL: galvanized steel
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0461	8	40	50	M4	20	9	100/800
F0462	9	45	55	M5	24	10	100/100

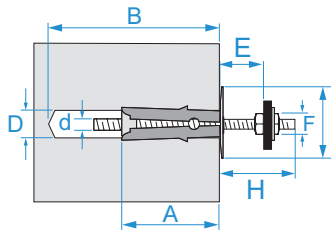


TM

HEAVY DUTY ANCHORS · TM · WITH L-HOOK


WALL PLUG TYPE: anchors TM
WALL PLUG MATERIAL: galvanized steel
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	H (mm)	
F0441	8	40	50	M4	20	12	100/800
F0442	9	45	55	M5	24	15	100/800


HEAVY DUTY ANCHORS · TM · WITH DOUBLE NUT


WALL PLUG TYPE: anchors TM
WALL PLUG MATERIAL: galvanized steel
CONE MATERIAL: brass
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	l (mm)	E max (mm)	H (mm)	F (mm)	
F0481	8	40	50	M4	20	25	35	7	100/800
F0482	9	45	55	M5	24	30	40	8	50/400



TNV WALL PLUGS FOR HOLLOW MATERIALS

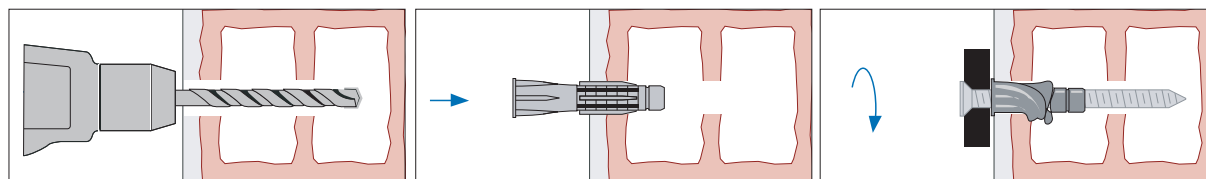
TNV wall plugs for hollow materials are specially designed to guarantee an excellent anchorage in the dry spaces of hollow materials.

The shape of the wall plug produces a special deformation that ensures a perfect hold.

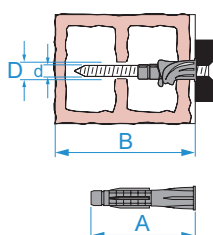
The lateral fins and the special collar prevent the plug from rotating on its own axis.



FIXING STEPS



WALL PLUGS FOR HOLLOW MATERIALS · TNV · NYLON WALL PLUG



WALL PLUG TYPE: TNV wall plugs for hollow materials

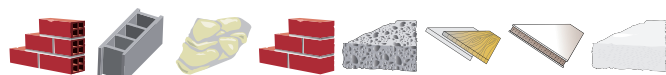
WALL PLUG MATERIAL: high resistance polyamide

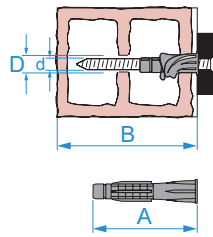
WALL PLUG COLOR: grey

SCREW MATERIAL: galvanized steel

INSTALLATION TYPE: non-through

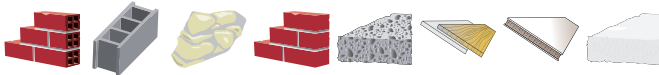
Code	D (mm)	A (mm)	B (mm)	d (mm)	
F0101	6	36	55	3,5 ÷ 4	100/3600
F0102	8	50	65	4,5 ÷ 5	100/2400
F0103	10	60	75	5	100/1200



WALL PLUGS FOR HOLLOW MATERIALS - TNV - WITH FLAT COUNTERSUNK HEAD PZ SCREW


WALL PLUG TYPE: TNV wall plugs for hollow materials
WALL PLUG MATERIAL: high resistance polyamide
WALL PLUG COLOR: grey
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

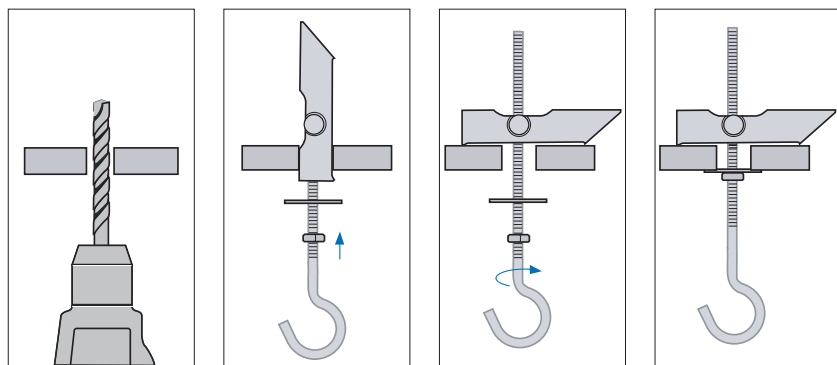
Code	D (mm)	A (mm)	B (mm)	d x C (mm)	E (mm)	
F0111	6	36	55	3,5 x 50	5	100/2400
F0112	8	50	65	4,5 x 50	5	100/1200
F0113	10	60	75	5 x 70	5	100/900



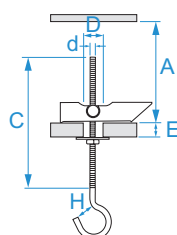
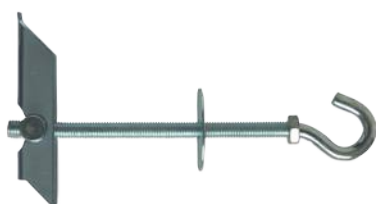
AG GRAVITY TOGGLE BOLTS

AG graviti toggle anchor is equipped with a hinged bearing element that guarantees an excellent vertical hold. It is ideal for light fixings and perforated materials with shallow technical cavities. The threaded rod allows for depth adjustment, balancing any differences in the walls' thickness. The unique mechanism with the hinged bearing element prevents accidental release.

FIXING STEPS



GRAVITY TOGGLE BOLTS · AG · WITH ROUND HOOK

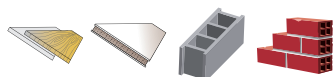


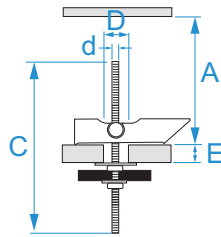
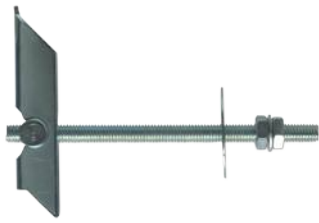
WALL PLUG TYPE: AG gravity toggle bolts

MATERIAL: galvanized steel

INSTALLATION TYPE: through

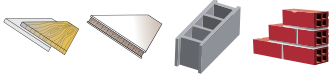
Code	D (mm)	d x C	E max (mm)	H (mm)	A min (mm)	
F1136	16	M6 x 70	31	12	67	100/100



GRAVITY TOGGLE BOLTS · AG · WITH THREADED ROD AND DOUBLE NUT


WALL PLUG TYPE: AG gravity toggle bolts
MATERIAL: galvanized steel
INSTALLATION TYPE: through

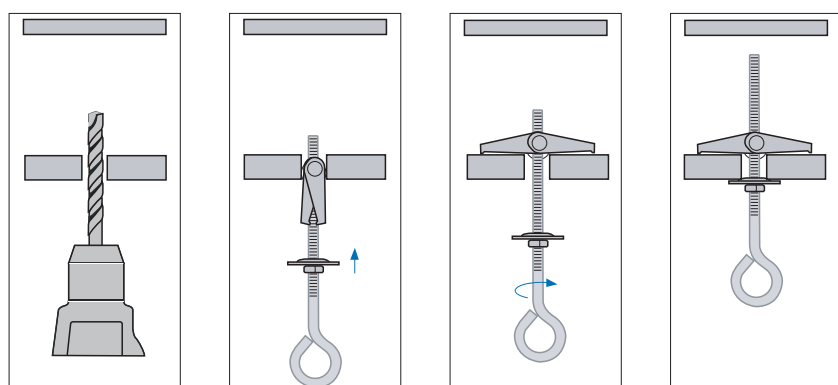
Code	D (mm)	d x C	E max (mm)	A min (mm)	
F1186	16	M6 x 100	31	67	100/100



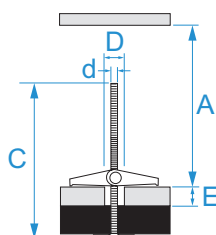
AM SPING TOGGLES

The AM spring toggle is ideal for vertical light fixings and for perforated materials with shallow technical cavities. The threaded rod allows for depth adjustment, balancing any differences in the walls' thickness. The unique spring mechanism prevents accidental release.

FIXING STEPS

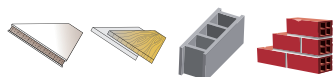


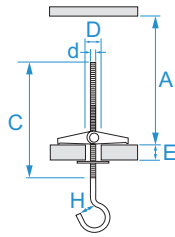
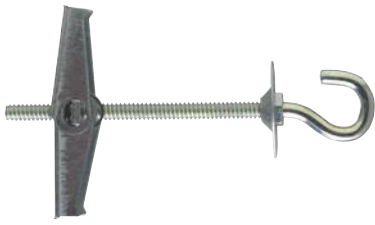
SPING TOGGLES- AM · WITH COUNTERSUNK HEAD PH SCREW



WALL PLUG TYPE: AM spring toggles
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

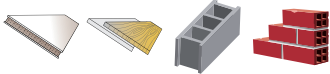
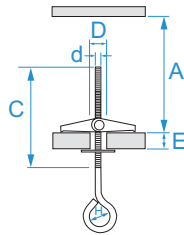
Code	D (mm)	d x C	E max (mm)	A min (mm)	
F1014	14	M4 x 90	30	34	100/100



SPING TOGGLES- AM · WITH ROUND HOOK


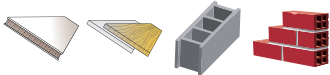
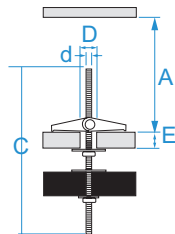
WALL PLUG TYPE: AM sping toggles
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	d x C	E max (mm)	H (mm)	A min (mm)	
F1034	14	M4 x 65	30	14	34	100/100


SPING TOGGLES- AM · WITH EYE HOOK


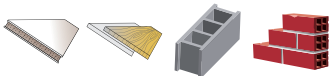
WALL PLUG TYPE: AM sping toggles
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	d x C	E max (mm)	H (mm)	A min (mm)	
F1054	14	M4 x 65	30	14	34	100/100


SPING TOGGLES- AM · WITH THREADED ROD AND DOUBLE NUT


WALL PLUG TYPE: AM sping toggles
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

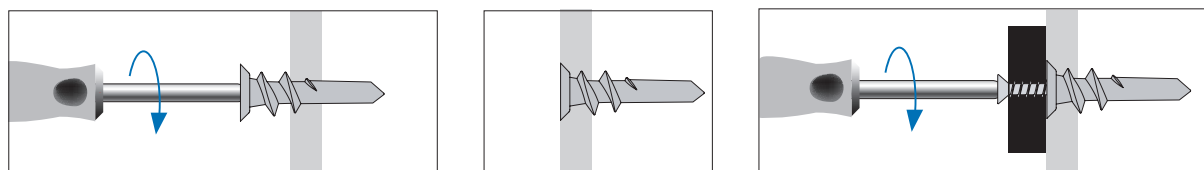
Code	D (mm)	d x C	E max (mm)	A min (mm)	
F1084	14	M4 x 95	30	34	100/100



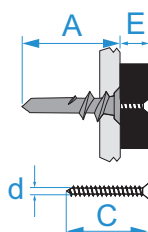
VP PLASTERBOARD ANCHOR

VP polyamide anchors are ideal for light fixings on plasterboard. Thanks to their small size, there is no need for a large air space behind the plasterboard wall. It is not suitable for fixings on fibre-cement panels and on plasterboard with synthetic coatings. For applications on panels over 15 mm thick, you need to drill a pilot hole.

FIXING STEPS



PLASTERBOARD ANCHOR - VP - WITH FLAT COUNTERSUNK HEAD PZ SCREW



WALL PLUG TYPE: VP wall plugs for plasterboard
WALL PLUG MATERIAL: high resistance polyamide
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

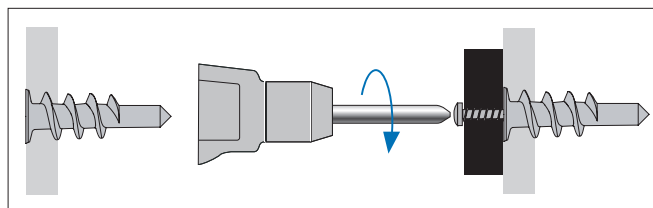
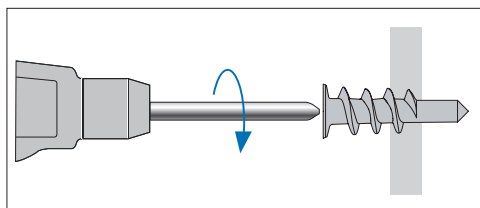
Code	A (mm)	d x C (mm)	E max (mm)	
F1311	33	4,5 x 35	12	100/2000



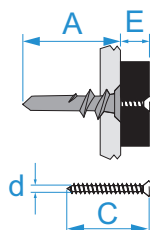
VM PLASTERBOARD ANCHOR

The VM metal anchor is ideal for fixings on plasterboard panels and sheets. Thanks to its small size, there is no need for a large air space behind the plasterboard wall. It is not suitable for fixings on fibre-cement panels and on plasterboard with synthetic coatings. For applications on panels over 15 mm thick, you need to drill a pilot hole.

FIXING STEPS



PLASTERBOARD ANCHOR - VM - WITH FLAT HEAD PZ SCREW



WALL PLUG TYPE: VM wall plugs for plasterboard
WALL PLUG MATERIAL: zinc alloy
SCREW MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	A (mm)	d x C (mm)	E max (mm)	
F1411	38	4,5 x 30	12	100/2000



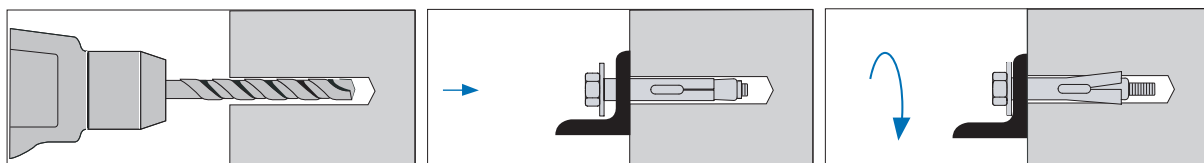
TMP SLEEVE ANCHOR

Steel sleeve anchor for heavy duty through fixings. Designed for multiple uses, it offers high application speed and is particularly suitable for fixings in solid construction materials.

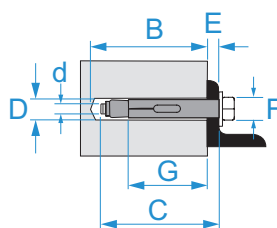
It is ideal for light carpentry, frames, profiles and doors. The large washer guarantees a better distribution of the tightening forces.

○ **TMP**

FIXING STEPS



SLEEVE ANCHORS · TMP · WITH HEXAGONAL HEAD 6.8 SCREW



WALL PLUG TYPE: anchors TMP
MATERIAL: galvanized steel
INSTALLATION TYPE: through

Code	D (mm)	B (mm)	d x C	E max (mm)	F (mm)	G min (mm)	
F3114	8	65	M6 x 65	15	10	40	100/1000
F3116	8	90	M6 x 90	40	10	40	150/900
F3126	10	65	M8 x 65	10	13	45	50/500
F3128	10	90	M8 x 90	35	13	45	50/300
F3137	12	75	M10 x 75	10	17	50	50/300
F3131	12	115	M10 x 115	50	17	50	25/150



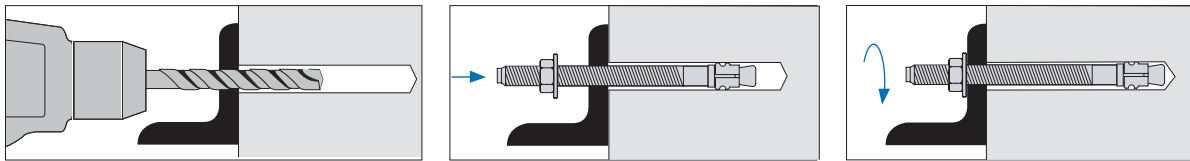
TMP

TPP ANCHOR BOLTS

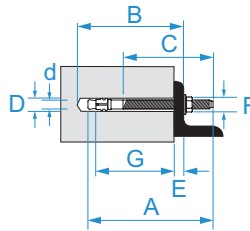
Steel anchor bolt for heavy duty through fixings. It comes with an expansion strap, a nut and a washer. The TPP anchor bolt is the ideal through fixing for metallic carpentry. The depth of insertion may vary depending on the needs. The long thread makes the TPP plug suitable for different thicknesses. The shape of the strap and the expansion area enable steady fixings on concrete.

TPP

FIXING STEPS

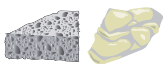


ANCHOR BOLTS · TPP · STEEL ANCHOR BOLT WITH NUT AND WASHER



WALL PLUG TYPE: anchors TPP
MATERIAL: galvanized steel
INSTALLATION TYPE: through

Code	D (mm)	A (mm)	B (mm)	d x C	F (mm)	E (mm)	G (mm)	
F8003	8	75	75	M8 x 45	13	9/22	48/35	50/50
F8004	8	100	100	M8 x 70	13	34/47	48/35	100/100
F8005	10	75	75	M10 x 35	17	3/11	50/42	100/100
F8006	10	90	90	M10 x 45	17	18/26	50/42	25/25
F8007	10	120	120	M10 x 80	17	48/56	50/42	25/25
F8008	12	95	95	M12 x 40	19	7/17	70/50	25/25
F8009	12	110	110	M12 x 55	19	12/32	70/50	50/50
F8010	12	140	140	M12 x 90	19	52/62	70/50	20/20
F8011	16	125	125	M16 x 75	24	6/26	87/64	25/25
F8012	16	150	150	M16 x 100	24	31/51	84/64	10/10



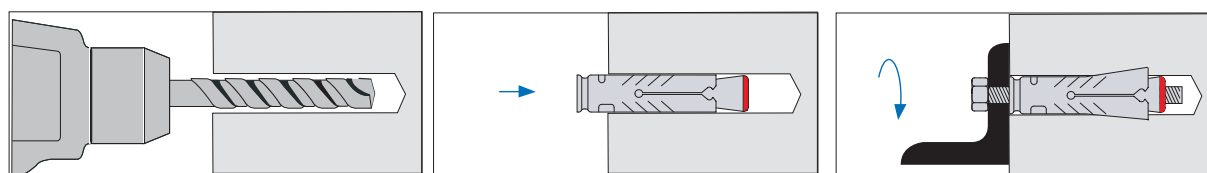
TPP

TMN HEAVY DUTY ANCHORS

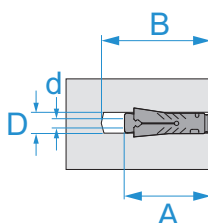
This 100% steel anchor has 3 expansion areas and comes with anti-rotation fins and gripping ribs to ensure perfect adherence to the walls of the hole. The conical nut is protected by a plastic cover to prevent the drilling debris from damaging the internal thread.

It comes complete with a wide range of screws in different shapes and sizes, which solve all fixing issues in any area of use, ensuring highly reliable performance.

FIXING STEPS



HEAVY DUTY ANCHORS · TMN · STEEL ANCHOR



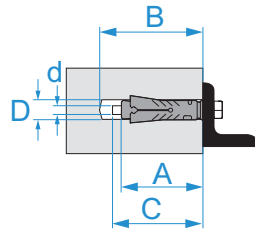
WALL PLUG TYPE: anchors TMN

MATERIAL: galvanized steel

INSTALLATION TYPE: non-through

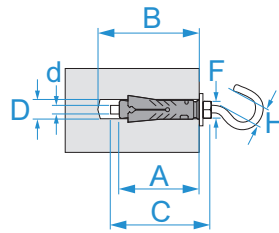
Code	D (mm)	A (mm)	B (mm)	d	
F2001	10	45	60	M6	100/100
F2002	12	50	65	M8	100/100
F2003	15	60	80	M10	50/50
F2004	18	74	100	M12	25/25



HEAVY DUTY ANCHORS · TMN · WITH HEXAGONAL HEAD 8.8 SCREW


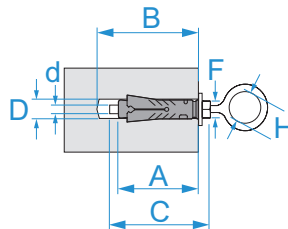
WALL PLUG TYPE: anchors TMN
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	E max (mm)	F (mm)	
F2011	10	45	60	M6 x 55	5	10	50/50
F2012	12	50	65	M8 x 60	5	13	50/50
F2013	15	60	90	M10 x 85	10	17	50/50
F2014	18	74	115	M12 x 105	20	19	15/15


TMN
HEAVY DUTY ANCHORS · TMN · WITH 5.8 HOOK


WALL PLUG TYPE: anchors TMN
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	H (mm)	F (mm)	
F2031	10	45	60	M6 x 55	8	10	50/50
F2032	12	50	65	M8 x 60	10	13	25/25
F2033	15	60	80	M10 x 73	12.5	17	15/15
F2034	18	74	100	M12 x 90	16	19	10/10

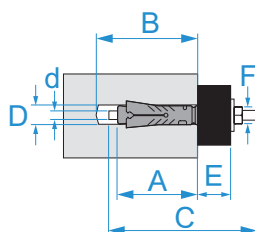

TMN
HEAVY DUTY ANCHORS · TMN · WITH 5.8 EYE HOOK


WALL PLUG TYPE: anchors TMN
MATERIAL: galvanized steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	H (mm)	F (mm)	
F2051	10	45	60	M6 x 55	10	10	50/50
F2052	12	50	65	M8 x 60	11	13	25/25
F2053	15	60	80	M10 x 73	14.5	17	20/20
F2054	18	74	100	M12 x 90	17	19	10/10


TMN

HEAVY DUTY ANCHORS - TMN - WITH THREADED ROD



WALL PLUG TYPE: anchors TMN

MATERIAL: galvanized steel

INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	E max (mm)	F (mm)	
F2081	10	45	65	M6 x 70	5	10	100/100
F2082	12	50	80	M8 x 85	10	13	25/25
F2083	15	60	100	M10 x 105	20	17	50/50
F2084	18	74	125	M12 x 130	25	19	25/25



TMN

TPN HEAVY DUTY ANCHORS

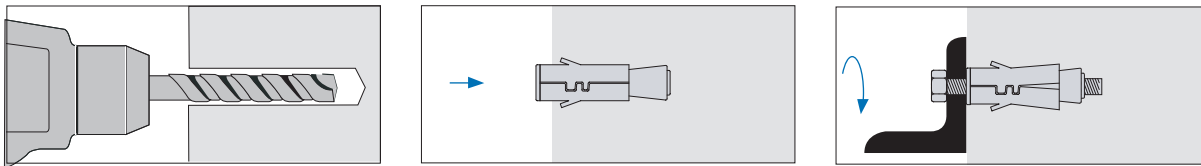
Steel anchors for heavy duty fixings. Featuring two steel elements and equipped with side fins, it is complemented by an expansion cone. It comes with a wide range of screws in different shapes and sizes, which solve all fixing issues in any area of use, ensuring highly reliable performance.

Preventing the anchor from turning during the expansion, the side fins guarantee a perfect hold.

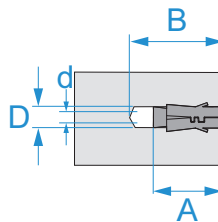
A plastic cover protects from dust the thread of the expansion cone.

TPN

FIXING STEPS



HEAVY DUTY ANCHORS · TPN · STEEL ANCHOR



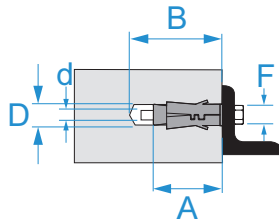
WALL PLUG TYPE: anchors TPN
MATERIAL: steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d	
F7001	12	45	60	M6	100/100
F7002	14	50	65	M8	50/50
F7003	16	60	80	M10	50/50
F7004	20	75	95	M12	25/25



TPN

HEAVY DUTY ANCHORS · TPN · WITH HEXAGONAL HEAD 8.8 SCREW AND LARGE WASHER



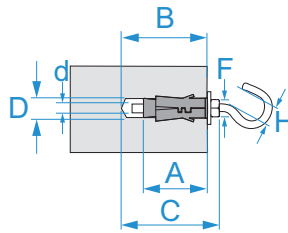
WALL PLUG TYPE: anchors TPN
MATERIAL: steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	E max (mm)	F (mm)	
F7011	12	45	60	M6 x 50	10	10	50/50
F7012	14	50	65	M8 x 60	10	13	25/25
F7013	16	60	85	M10 x 80	20	17	20/20
F7014	20	75	95	M12 x 90	20	19	10/10



TPN

HEAVY DUTY ANCHORS · TPN · WITH 5.8 HOOK AND LARGE WASHER



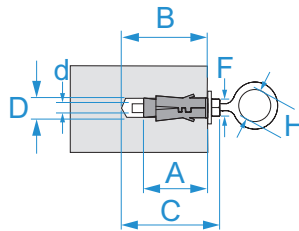
WALL PLUG TYPE: anchors TPN
MATERIAL: steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	H (mm)	F (mm)	
F7031	12	45	60	M6 x 55	8	10	50/50
F7032	14	50	65	M8 x 60	10	13	25/25
F7033	16	60	80	M10 x 73	12.5	17	10/10
F7034	20	75	95	M12 x 90	16	19	5/5



TPN

HEAVY DUTY ANCHORS · TPN · WITH 5.8 EYE HOOK AND LARGE WASHER

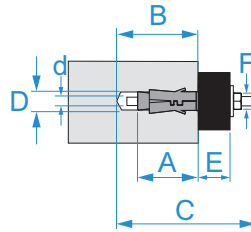


WALL PLUG TYPE: anchors TPN
MATERIAL: steel
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	H (mm)	F (mm)	
F7051	12	45	60	M6 x 55	10	10	50/50
F7052	14	50	65	M8 x 60	11	13	25/25
F7053	16	60	80	M10 x 73	14.5	17	10/10
F7054	20	75	95	M12 x 90	17	19	5/5



TPN

HEAVY DUTY ANCHORS - TPN - WITH 5.8 THREADED ROD AND LARGE WASHER

WALL PLUG TYPE: anchors TPN

MATERIAL: steel

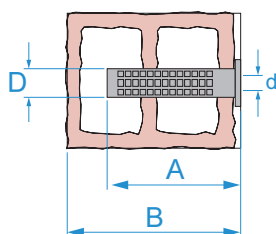
INSTALLATION TYPE: non-through

Code	D (mm)	A (mm)	B (mm)	d x C	E max (mm)	F (mm)	
F7081	12	45	60	M6 x 65	15	10	50/50
F7082	14	50	70	M8 x 75	20	13	25/25
F7083	16	60	80	M10 x 95	30	17	25/25
F7084	20	75	100	M12 x 115	35	19	15/15


TPN

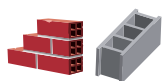
ACCESSORIES FOR CHEMICAL FIXINGS

ACCESSORIES FOR CHEMICAL FIXINGS - GN INJECTION ANCHOR SLEEVE

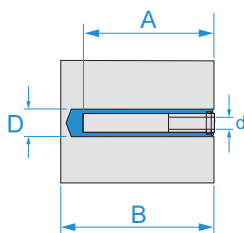


WALL PLUG TYPE: accessories for chemical anchors

Code	D (mm)	A (mm)	B (mm)	d	
F9401	12	50	55	M8	10/40
F9402	15	85	95	M10	10/40
F9403	15	130	140	M10	10/10
F9404	20	85	95	M12	10/10

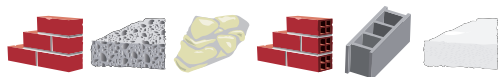


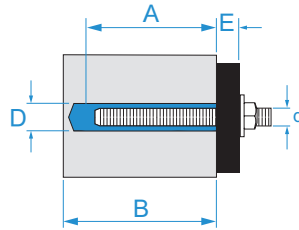
ACCESSORIES FOR CHEMICAL FIXINGS - BFI INSIDE THREADED ANCHOR



WALL PLUG TYPE: accessories for chemical anchors

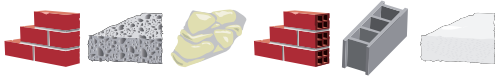
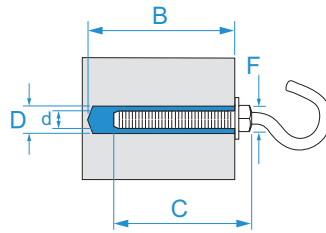
Code	D (mm)	A (mm)	B (mm)	d	
F9502	14	80	90	M8	100/100
F9503	16	80	90	M10	100/100
F9504	12	80	90	M12	50/50



ACCESSORIES FOR CHEMICAL FIXINGS - BF 5.8 THREADED ROD


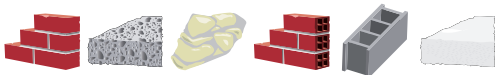
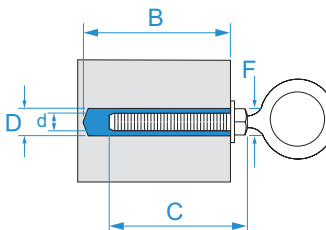
WALL PLUG TYPE: accessories for chemical anchors

Code	D (mm)	B (mm)	d x C	E max (mm)	F (mm)	
F9082	10	80	M8 x 100	10	13	10/10
F9084	12	90	M10 x 110	10	17	10/10
F9085	12	90	M10 x 135	35	17	10/10
F9087	14	110	M12 x 115	10	19	10/10


ACCESSORIES FOR CHEMICAL FIXINGS - GFA 5.8 THREADED HOOK


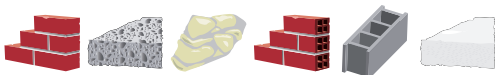
WALL PLUG TYPE: accessories for chemical anchors

Code	D (mm)	B (mm)	d x C	F (mm)	
F9032	10	65	M8 x 60	13	50/50
F9033	12	80	M10 x 73	17	25/25


ACCESSORIES FOR CHEMICAL FIXINGS - GFO 5.8 THREADED EYE HOOK


WALL PLUG TYPE: accessories for chemical anchors

Code	D (mm)	B (mm)	d x C	F (mm)	
F9052	10	65	M8 x 60	13	50/50
F9053	12	80	M10 x 73	17	25/25
F9054	14	95	M12 x 90	19	15/15



MANUAL NAILING

FIXINGS

IMPACT NAIL

SUITABLE FOR: fixing clips or pre-perforated steel bands without pre-drilling



Code	Length (cm)	Diameter (mm)	
F0531	17	4	200/2000

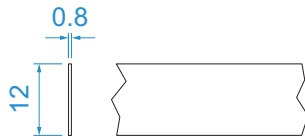
IMPACT NAIL SETTING TOOL

SUITABLE FOR: the application of percussion nails directly into the concrete. Housing with nail holding ball. Robust and ergonomic bumper grip for maximum percussion safety. Head treated with special anti-splinter quenching



Code	Weight (g)	
F0521	520	5/5

TEXTILE BAND

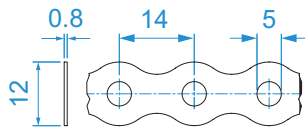


MATERIAL: polypropylene

SUITABLE FOR: fixing pipes on the floor or hanging from the ceiling

Code	Length (m)	Breaking load (daN)	
F0511	10	80	10/10

PRE-PERFORATED METAL BAND



MATERIAL: metal

SUITABLE FOR: fixing pipes on the floor or hanging from the ceiling

Code	Length (m)	Breaking load (daN)	
F0501	10	200	10/10

KIT: TEXTILE BANDS AND FIXING ACCESORIES WITH PLASTIC CASE



Code	Description	
F9904	textile bands and fixing accessories kit	1/1

Component	Description	Pieces
F0511	15x0.8 mm textile band	10
F0531	17 mm steel impact nails	1000
1716	Hammer (300 g)	1
1880	Shockproof plastic box	1
F0521	Impact nail setting tool	1

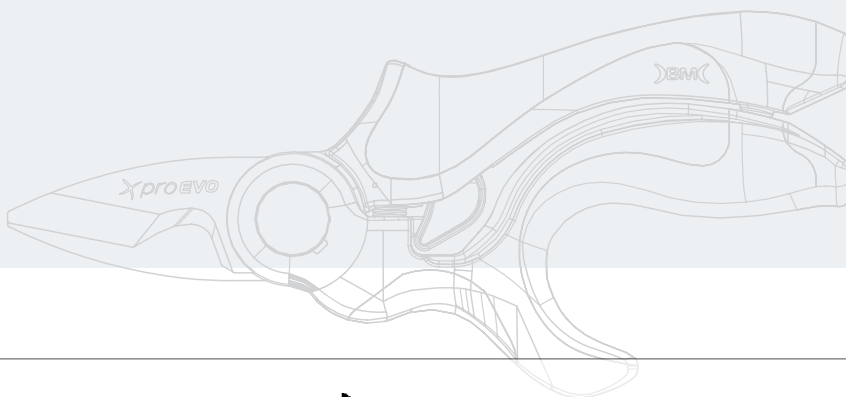




TOOLS

SCISSORS	pag. 350
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HIGH INSULATION PLIERS	pag. 364
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X-PRO EVO SCISSORS



The X-PRO EVO scissors come with an innovative design, featuring lines and volumes that perfectly follow the hand's anatomy and posture, ensuring a better grip and greater comfort while cutting.

X-PRO EVO

Body made of bi-component material that combines a soft touch material and a non-slip surface for a comfortable and safe grip

Rugged handle with steel blades running through it all its length

The convenient closing clip can be released with a single gesture

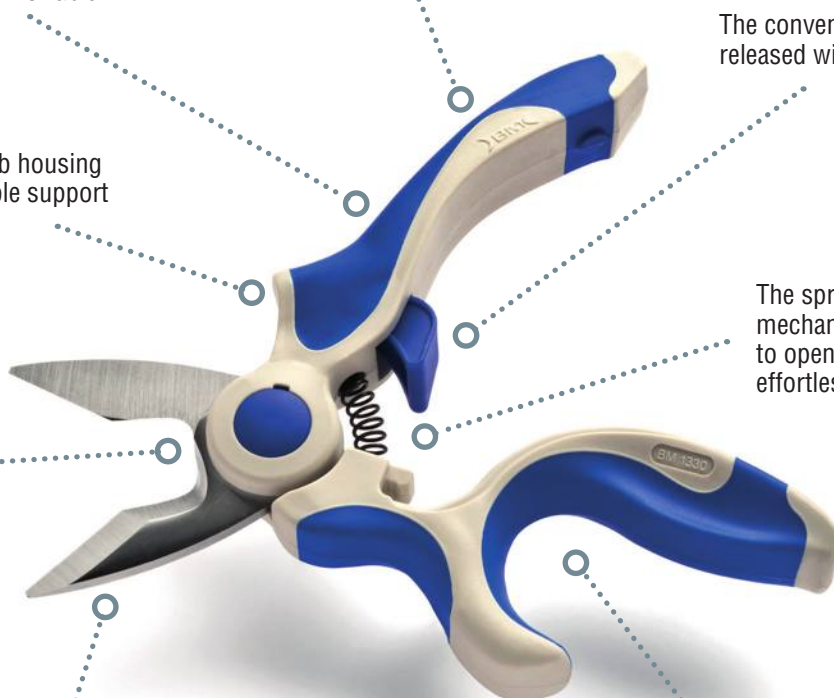
The upper lever with thumb housing makes for more comfortable support

The spring opening mechanism allows you to open the scissors effortlessly

Special profile suitable for cutting and stripping cables. Cutting up to 50 mm²

The lower lever with housing for the forefinger and open eyelet is comfortable and fits hands of different sizes

Antiskid micro-serrated stainless steel blades



Safety case with adjustable clip for fastening to the belt



Ergonomic handle, ideal for extended use without fatigue



SCISSORS · X-PRO EVO


- innovative design with lines and volumes that ensure excellent ergonomics.
- thanks to the special open loop shape of the lower level it fits into hands of different sizes
- body in bi-component material that alternates soft touch material with a non-slip surface for a comfortable and safe grip, which allows cutting with less effort
- sturdy handle, the steel blades run along its entire length
- the spring opening system allows the scissors to be opened effortlessly for effective stripping and cutting of the cables. The blade locking device is released with a single gesture
- antiskid micro-serrated blades
- blades with variable geometry profiles enables you to cut and strip copper and aluminium cables up to 50 mm²

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: stainless steel

Code	With safety case	Length (mm)	Weight (g)	
1330	√	160	125	1/12


SCISSORS · X-PRO


- body in bi-component material that alternates soft touch material with a non-slip surface for a comfortable and safe grip, which allows cutting with less effort
- the spring opening system allows the scissors to be opened effortlessly for effective stripping and cutting of the cables. The blade locking device is released with a single gesture
- antiskid micro-serrated blades

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: stainless steel

Code	With safety case	Length (mm)	Weight (g)	
1325	√	153	98	1/12


SCISSORS · MAXI GRIP


- innovative design with flat top eyelet that guarantees a greater cutting lever
- antiskid micro-serrated blades
- measuring notches in cm on the handle

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 57-60 HRC hardened stainless steel

Code	With safety case	Length (mm)	Weight (g)	
1310		151	75	1/12
1311	√	151	111	1/20

SCISSORS · EXTRA LIGHT


- compact structure with light and universal structure
- antiskid micro-serrated blades
- anti loosening pin

HANDLE MATERIAL: plastic material

BLADE MATERIAL: 57-60 HRC hardened stainless steel

Code	Length (mm)	Weight (g)	
1332	143	55	1/24


SCISSORS - HEAVY DUTY



- robust design
- antiskid micro-serrated blades
- anti loosening pin
- wire-stripping nick

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 57-60 HRC hardened stainless steel

Code	With safety case	Length (mm)	Weight (g)	
1320		145	80	1/12
1321	√	145	116	1/20


UNIVERSAL SHEARS



- the spring opening system allows the scissors to be opened effortlessly for effective stripping and cutting of the cables. The blade locking device is released with a single gesture
- antiskid micro-serrated blades
- anti loosening pin
- integrated wire stripper for sections of 1, 1.5 and 2 mm². To carry out the operation, simply insert the wire in the corresponding section and press the handle

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 52-54 HRC hardened stainless steel

Code	Length (mm)	Weight (g)	
1340	200	164	1/12

CABLE CUTTER



- for copper and aluminum cables
- robust and ergonomic design
- adjustable anti loosening pin
- blade locking device
- return spring

HANDLE MATERIAL: bi-component plastic material

BLADE MATERIAL: 52-54 HRC hardened stainless steel

Code	Max cable section (mm ²)	Length (mm)	Weight (g)	
1335	35	183	149	1/12

CABLE STRIPPER WITH KNIFE



- transverse and longitudinal cut
- adjustable cut depth
- provided with a spare blade in the handle

BODY MATERIAL: in shockproof plastic

BLADE MATERIAL: steel

Code	Description	Diameter (mm)	Weight (g)	
1350	cable stripper with knife	8 - 28	90	1/10
1354	spare blade		2	10/10

PIPE CUTTER · DUCT CUTTER



- versatile ratchet tool for cutting plastic pipes (max 42 mm) and ducts (max 30x15 mm) as PVC, PP and PE
- the resin support, inserted in to the tool jaws, is provided with cutting marks with angles of 45°, 90° and 135°

Code	Length (mm)	Weight (g)	
1136	240	450	1/1

CABLE STRIPPER



- transverse and longitudinal cut
- adjustable cut depth
- provided with a spare blade in the handle

BODY MATERIAL: in shockproof plastic

BLADE MATERIAL: steel

Code	Description	Diameter (mm)	Weight (g)	
1351	cable stripper	4 - 28	80	1/10
1353	cable stripper	28 - 35	90	1/10
1354	spare blade		2	10/10



CABLE STRIPPER KNIFE



- retractable steel hook knife
- BODY MATERIAL:** in shockproof plastic
BLADE MATERIAL: steel
BLADE MATERIAL: steel

Code	Description	Diameter (mm)	Weight (g)	
1355	cable stripper knife	4 - 28	70	1/2
1356	spare blade	4 - 28	2	10/10
1357	spare hookblade		10	10/10

AUTOMATIC WIRE STRIPPER



- automatic stripping without adjustment of the sections
 - integrated cable cutter for cables up to Ø 3 mm
 - suitable for flat cables (0.75 - 1.5 mm²)
- BODY MATERIAL:** in shockproof plastic

Code	Flexible conductor section (mm ²)	Rigid conductor section (mm ²)	Weight (g)	
1371	0,5 - 16	0,5 - 10	205	1/6

AUTOMATIC WIRE STRIPPER



- automatic stripping without adjustment of the sections
 - integrated cable cutter for cables up to Ø 2 mm
 - stripping length adjustable from 5 to 12 mm
- BODY MATERIAL:** in shockproof plastic

Code	Flexible conductor section (mm ²)	Rigid conductor section (mm ²)	Weight (g)	
1370	0,2 - 6	0,2 - 6	105	1/6

WIRE STRIPPER FOR COAXIAL CABLES



- automatic stripping without adjustment of the sections
 - integrated cable cutter
- BODY MATERIAL:** in shockproof plastic

Code	Diameter (mm)	Weight (g)	
1372	4,8 - 7,5	55	1/12

AUTOMATIC WIRE STRIPPER PLIERS



It works by simply inserting the wire in the proper section and pressing the handle. The length of the removable part can be adjusted by means of a slat.

Code	Flexible conductor section (mm ²)	Cable type	
544	0,5 - 6	one-pole PVC	1/1

DOUBLE BLADE CUTTER



- reclosable knife equipped with two easily interchangeable blades: cutter and cutting blade 60 mm long
- fast switching from one blade to the other
- safety lock for opening and closing the blades
- rear hook for fastening to the belt and hanging case with blade holder pocket
- supplied with five spare blades

BODY MATERIAL: in aluminium

Code	Description	Length (mm)	Weight (g)	
1363	double blade knife	110	216	1/1
1364	spare blade		4	5/5

CUTTER



BLADE MATERIAL: steel

Code	Description	Length (mm)	Weight (g)	
1360	cutter	170	80	1/24
1361	spare blade		6	10/10

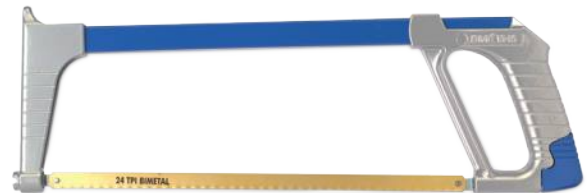
POCKET HACKSAW



- hacksaw with replaceable blade
- supplied with metal blade

Code	Description	Length (mm)	Weight (g)	
1341	pocket hacksaw	150	130	1/5
1342	spare blade		3	12/144

HACKSAW



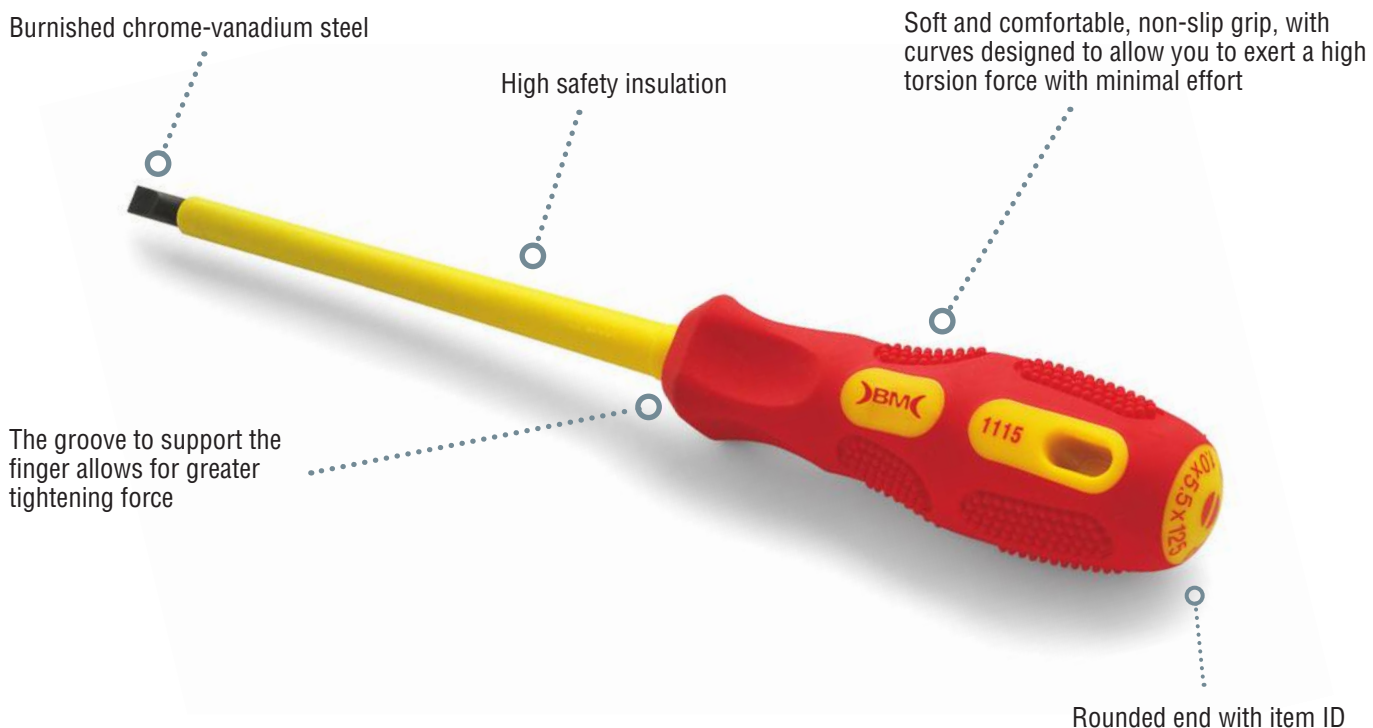
- hacksaw with replaceable blade
- supplied with Bimetall BAHCO blade for steel
- adjustable blade in 6 different cutting positions

Code	Description	Length (mm)	Weight (g)	
1345	pocket hacksaw	300	560	1/8
1344	spare blade		15	100/100

INSULATED SCREWDRIVERS

To ensure maximum safety, BM screwdrivers for electricians have passed numerous tests and comply with the EN 60900 standard for use with voltage up to 1000 V.

Thanks to the use of chromium-vanadium steel with induction hardening and opaque surface blueing, BM screwdrivers offer high performance and last for a long time. The handle is made of bi-component reinforced elastomer, a non-sticky and corrosion resistant material.



⚡ 1 000 V EN 60900:2004
(IEC 60900:2004)



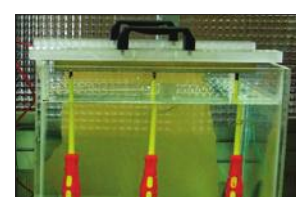
High temperature test, flame retardant test.



Low temperature test.



Individual tension tests.



Dielectric water bath test at 10000 V.

INSULATED SCREWDRIVERS - SLOTTED


TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	⌀ (mm)	— (mm)	— (mm)	⊞
1112	2,5	75	145	1/12
1113	3	100	170	1/12
1114	4	100	200	1/12
1115	5,5	125	225	1/12
1116	6,5	150	260	1/12
1118	8	175	285	1/6


1000 V
INSULATED SCREWDRIVERS - PHILLIPS HEAD (PH)


TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	⊕ (mm)	— (mm)	— (mm)	⊞
1120	0	60	130	1/12
1121	1	80	180	1/12
1122	2	100	210	1/12
1123	3	150	272	1/6


1000 V
INSULATED SCREWDRIVERS - POZIDRIV HEAD (PZ)


TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	⊕ (mm)	— (mm)	— (mm)	⊞
1130	0	60	130	1/12
1131	1	80	180	1/12
1132	2	100	210	1/12
1133	3	150	272	1/6


1000 V
INSULATED SCREWDRIVERS - NUT DRIVERS


HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	⊙ (mm)	— (mm)	— (mm)	⊞
1151	7	125	235	1/12
1152	8	125	235	1/12
1153	9	125	235	1/12
1154	10	125	235	1/12
1155	11	125	235	1/12
1156	12	125	235	1/12
1157	13	125	235	1/12


1000 V

INSULATED SCREWDRIVERS - 5 PCS SET (SLOTTED + PH)



TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code		
1195	1/6	
Component	⌀ (mm)	⊕ (mm)
1112	2,5	75
1114	4	100
1116	6,5	150
1121		1 80
1122		2 100



1000 V

INSULATED SCREWDRIVERS - 7 PCS SET (SLOTTED + PH)



TIP MATERIAL: burnished chrome-vanadium steel
HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code		
1197	1/6	
Component	⌀ (mm)	⊕ (mm)
1112	2,5	75
1113	3	100
1115	5,5	125
1116	6,5	150
1120		0 60
1121		1 80
1122		2 100



1000 V

INSULATED SCREWDRIVERS - 4 PCS SET (NUT DRIVERS)



HANDLE MATERIAL: bi-component reinforced elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code		
1194	1/1	
Component	⊙ (mm)	⊕ (mm)
1151	7	125
1152	8	125
1154	10	125
1157	13	125



1000 V

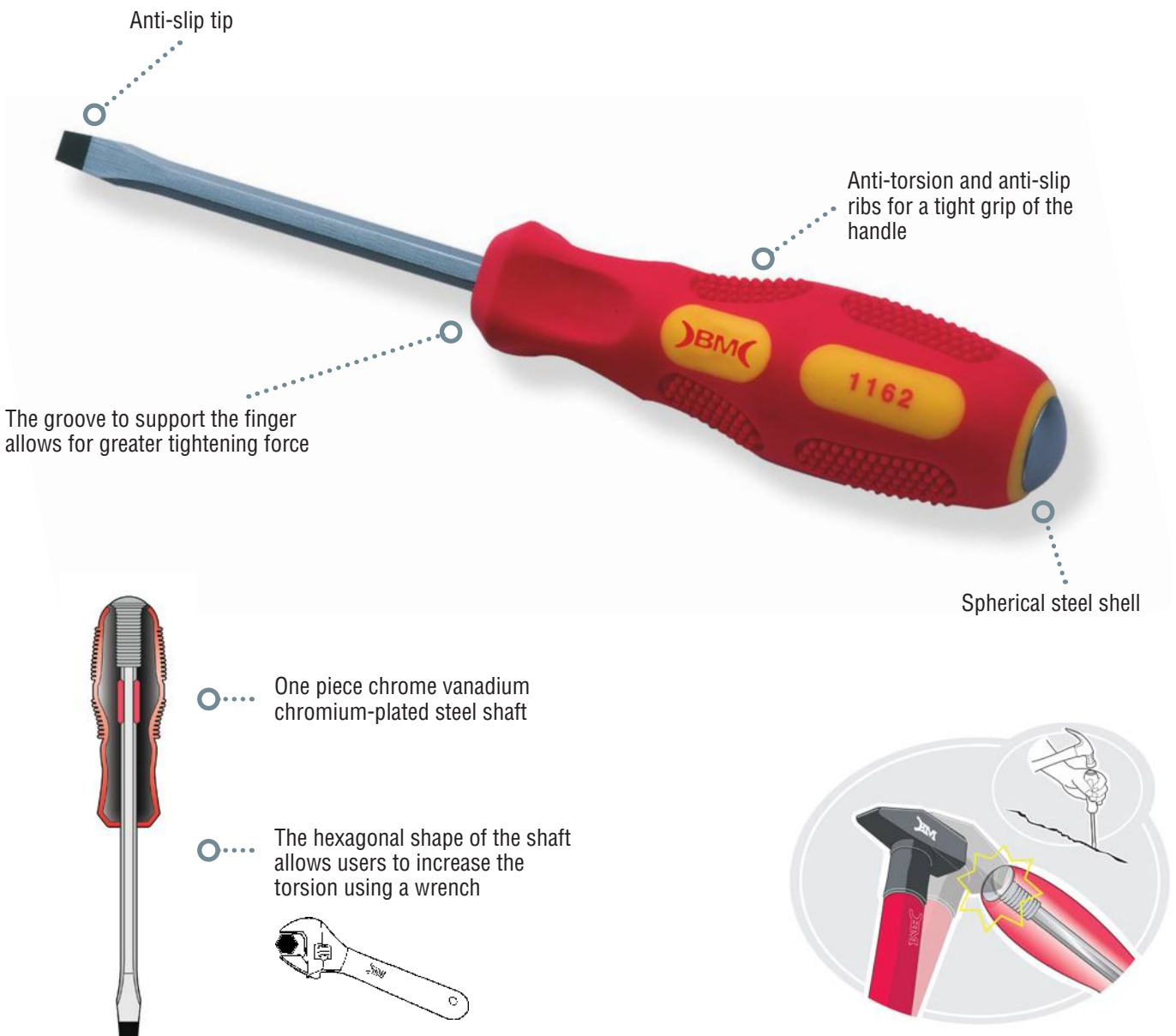
REINFORCED SCREWDRIVERS

Made from a single piece of chrome vanadium chromium-plated steel, the shaft transfers the impact force from the spherical shell to the tip without straining the handle. Plus, thanks to its special design, it absorbs the vibrations produced by the impact, eliminating discomfort and stress on the hand.

Anti-torsion and anti-slip ribs for a tight grip of the handle.

The hexagonal shape of the shaft allows users to increase the torsion using a wrench.

The innovative design of the bi-component elastomer handle ensures a soft and comfortable anti-slip grip.



REINFORCED SCREWDRIVERS - SLOTTED



TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

Code	⊖ (mm)	⊖ (mm)	⊖ (mm)	📦
1161	5	75	175	1/12
1162	6	100	210	1/12
1163	8	150	272	1/6

REINFORCED SCREWDRIVERS - PHILLIPS HEAD (PH)



TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

Code	⊕ (mm)	⊕ (mm)	📦	
1166	1	75	175	1/12
1167	2	100	210	1/12

REINFORCED SCREWDRIVERS - POZIDRIV HEAD (PZ)



TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

Code	⊕ (mm)	⊕ (mm)	📦	
1168	1	75	175	1/12
1169	2	100	210	1/12

REINFORCED SCREWDRIVERS - 7 PCS SET (SLOTTED + PH + PZ)



TIP MATERIAL: chrome-vanadium chromium-plated steel
HANDLE MATERIAL: bi-component elastomer

Code	📦
1190	1/1

Component	⊖ (mm)	⊕ (mm)	⊕ (mm)	📦
1161	5			75
1162	6			100
1163	8			150
1166		1		75
1167		2		100
1168			1	75
1169			2	100

FLEXIBLE DRIVER SET


- 12 pieces set including:
- flexible driver
 - 1/4" bit holder
 - slotted bits: 5 - 6 - 7 mm
 - Phillips bits: N° 1 - N° 2 - N° 3
 - Pozidriv bits: N° 1 - N° 2
 - Torx bits: T15 - T20

Code				
	(mm)	(mm)		
1191	150	270		1/6

SCREWDRIVERS - TORX


Code					
	(mm)	(mm)	(mm)		
1181	T8	75	145	1/12	
1182	T9	75	145	1/12	
1183	T10	100	200	1/12	
1184	T15	100	200	1/12	
1185	T20	100	200	1/12	

SCREWDRIVERS - 5 PCS SET (TORX)


Code				
		(mm)	(mm)	
1196	1/12			
Component				
1181	T8	75	145	
1182	T9	75	145	
1183	T10	100	200	
1184	T15	100	200	
1185	T20	100	200	

RETAINING SCREWDRIVER


Code					
	(mm)	(mm)	(mm)		
1171	4	125	220	1/12	

MAGNETIC BIT-HOLDER 1/4"


- chrome-vanadium steel

Code	Length (mm)	
11401	60	1/10

1/4" BITS FOR PHILLIPS SCREWS



TIP MATERIAL: chrome-vanadium steel

Code	⊕	Length (mm)	
11402	1	100	1/10
11403	1	150	1/10
11404	2	100	1/10
11405	2	150	1/10

1/4" BIT SET - 7 PCS



- 1/4" magnetic screwdriver holder
- Slotted bits: 5,5 x 0,8 - 7 x 1,2
- Phillips bits: N° 1 - N° 2
- Pozidriv bits: N° 1 - N° 2

Code	Weight (g)	
1140	95	1/10

1/4" BITS FOR POZIDRIV SCREWS



TIP MATERIAL: chrome-vanadium steel

Code	⊕	Length (mm)	
11406	1	100	1/10
11407	1	150	1/10
11408	2	100	1/10
11409	2	150	1/10

VOLTAGE TESTER 3X60


- protection resistance inserted in the bulb
- light (only 17g)

HANDLE MATERIAL: transparent plastic

HARDNESS: 52-55 HRC

SURFACE TREATMENT: nickel

Code	Voltage (VAC)	⌀ (mm)	🔧 (mm)	🔧 (mm)	♻️
1141	120-250	3	60	140	1/10


VOLTAGE TESTER 3.5X100


- protection resistance inserted in the bulb
- light (only 30g)

HANDLE MATERIAL: transparent plastic

HARDNESS: 52-55 HRC

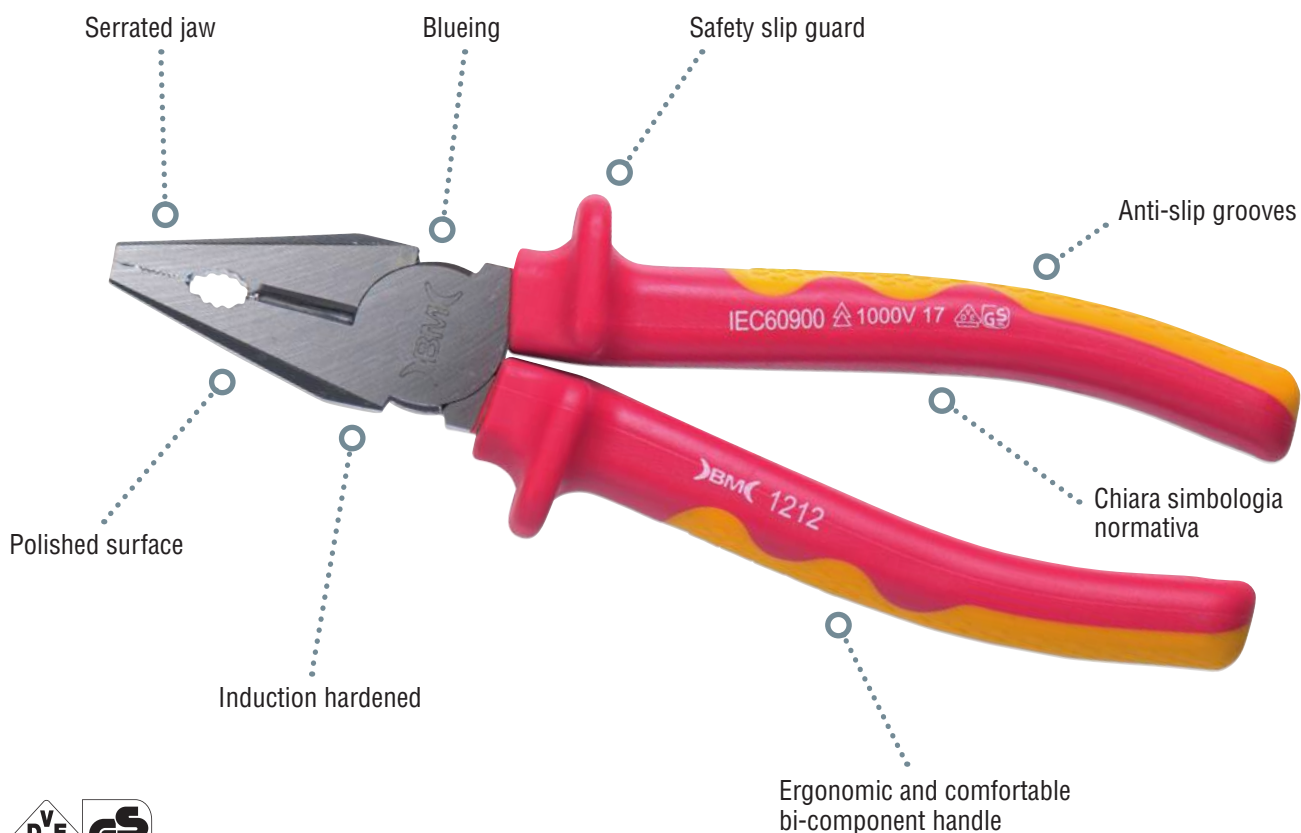
SURFACE TREATMENT: nickel

Code	Voltage (VAC)	⌀ (mm)	🔧 (mm)	🔧 (mm)	♻️
1142	120-250	3,5	100	190	1/10



HIGH INSULATION PLIERS

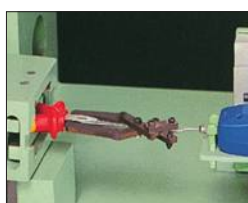
BM's high insulation pliers are manufactured and tested one by one at 10,000 V in conformity to EN 60900 for use with voltage up to 1,000 V approx. The steel used is high quality chromium-vanadium, with induction hardening treatment and opaque surface blueing, thus ensuring that BM's pliers achieve high performance and last for a long time. The pliers have an innovative design, which ensures a comfortable and ergonomic anti-slip grip. The bi-component plastic used for the handles is not sticky, it is corrosion resistant and ensures a firm grip even in heavy duty applications.



Low temperature test.



Indentation test.



Handles mechanical resistance test.



High temperature test, flame retardant test.



Dielectric water bath test to 10000 V.

INSULATED PLIERS · COMBINATION


TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1211	160	230	1/6
1212	180	290	1/6
1213	200	350	1/6


1000 V
INSULATED PLIERS · SIDE CUTTERS


TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1220	140	148	1/4
1221	160	220	1/6
1222	180	300	1/6


1000 V
INSULATED PLIERS · LONG CHAIN NOSE


TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1232	160	150	1/4
1233	200	210	1/6


1000 V
INSULATED PLIERS · LONG CHAIN NOSE 45°


TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1243	200	200	1/6


1000 V

INSULATED PLIERS · FLAT NOSE



TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1251	160	170	1/6



1000 V

INSULATED PLIERS · WIRE STRIPPING



TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1261	160	190	1/6



1000 V

INSULATED PLIERS · WATER PUMP



TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	Max opening (mm)	
1273•	175	220	25	1/6
1274	250	400	35	1/6



• No VDE

1000 V

INSULATED PLIERS · HEAVY DUTY SIDE CUTTERS



TIP MATERIAL: chrome-vanadium steel
HANDLE MATERIAL: bi-component elastomer
ACCORDING TO STD.: EN 60900:2004 (IEC 60900:2004)

Code	Length (mm)	Weight (g)	
1225	200	334	1/4



1000 V

DRILL BITS · DIN 8039 MASONRY

BODY MATERIAL: carbide 1600 HVA

Code	Ø (mm)	 (mm)	 (mm)	
1911	4	40	75	1/5
1912	5	40	85	1/5
1913	6	55	100	1/5
1914	8	70	120	1/5
1915	10	70	120	1/5
1916	12	90	150	1/5

DRILL BITS · SDS-PLUS HAMMER


- SDS-PLUS drill bits
- for hammer drills
- with 4 spirals for faster feed and more debris discharge

BODY MATERIAL: 50-55 HRC steel

HEAD MATERIAL: 1650 HVA carbide metal

Code	Ø (mm)	 (mm)	 (mm)	
1921	5	50	110	1/1
1922	6	50	110	1/1
1923	6	100	160	1/1
1924	8	50	110	1/1
1925	8	100	160	1/1
1926	10	100	160	1/1
19261	10	400	460	1/1
19262	10	550	600	1/1
1927	12	100	160	1/1
19271	12	400	460	1/1
19272	12	550	600	1/1

DRILL BITS · 5 PCS SET · DIN 8039 MASONRY

SET PIECES: 5

Code	Ø (mm)	Weight (g)	
1919	4 - 5 - 6 - 8 - 10	125	1/1

DRILL BITS · 6 PCS SET · SDS-PLUS HAMMER


- for hammer drills

SET PIECES: 6

Code	Ø (mm)	Weight (g)	
1929	5 - 6 x 110 - 6 - 8 - 10 - 12 x 160	355	1/1

DRILL BITS · 19 PCS SET · HSS DIN 338 ROLLED TWIST


- complete with saw holder, pilot tips and saw holder adapter

HEAD MATERIAL: HSS

SET PIECES: 19

Code	Ø (mm)	Weight (g)	
1949	1 ÷ 10 x 0.5	443	1/1

DRILL BITS · 19 PCS SET · HSS-TIN DIN 338



HEAD MATERIAL: HSS-TIN
SET PIECES: 19

Code	Ø (mm)	Weight (g)
1950	1 ÷ 10 x 0.5	443

DRILL BITS · 19 PCS SET · MASONRY DIN 8039 AND HSS DIN 338



DIN 338 DRILL BIT APPLICATION: holes on iron and steel for non industrial uses
DIN 8039 DRILL BIT APPLICATION: holes on walls, cement, marble, non hard-stones with non-intensive use
SET PIECES: 19

Code	Masonry drill DIN 8039 (ISO 5468) (mm)	Drill HSS DIN 338 (mm)	Weight (g)	
1939	4, 5, 6, 8, 9, 10	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 8, 10	325	1/1

BI-METAL HSS HOLE SAW SET



- HSS bi-metal hole saws with variable toothing and positive scab for cutting any material including metal, plastic, wood, and plasterboard
- drilling depth max 30mm
- complete with saw holder, pilot drills and saw adapter

Code	Ø (mm)	Weight (g)	
1959	19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64	1470	1/1

ACCESSORIES FOR HOLE SAW · MANDREL



Code	Ø (mm)	Shank Ø (mm)	Weight (g)	
1972	14 ÷ 30	8.5	86	1/1
1973	32 ÷ 152	8.5	193	1/1

ACCESSORIES FOR HOLE SAW · MANDREL PILOT BIT



Code	Ø (mm)	(mm)	(mm)	
1974	6,35	40	80	1/1

HSS BI-METAL HOLE SAWS



Code	Ø (mm)	Weight (g)	
1960	19	26	1/1
1961	22	35	1/1
1962	29	60	1/1
1963	35	77	1/1
1964	38	89	1/1
1965	44	92	1/1
1966	51	118	1/1
1967	57	143	1/1
1968	60	159	1/1
1969	64	177	1/1
1970	68	193	1/1
1971	76	237	1/1

ADJUSTABLE CIRCULAR CUTTER WITH TRANSPARENT DUST PROTECTION



- cutter suitable for all types of drills with torque regulator
- easy fine adjustment of the cutting edges
- provided with dust cover
- suitable for plasterboard, fiber cement, wood, plywood veneer, stucco and acrylic materials, synthetic glass

Code	Ø (mm)	Cutting depth (mm)	Weight (g)	
1975	40 ÷ 125	30	1980	1/1
1976	40 ÷ 205	30	2470	1/1



CONE DRILL BIT - HSS



- for drilling metal sheets, pipes, metal or plastic rails up to 5 mm thick
- anti-slip joint
- coupling diameter 10 mm

Code	Ø (mm)	Weight (g)	
1941	3 ÷ 31	170	1/1

STEP DRILL BIT - HSS



- for drilling cylindrical and precise holes in metal sheets, pipes, metal or plastic rails up to 5 mm thick
- anti-slip joint
- coupling diameter 10 mm

Code	Ø (mm)	Weight (g)	
1944	4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	140	1/1

STEP DRILL BIT - HSS - FOR PG THREADS




- for drilling cylindrical and precise holes in metal sheets, pipes, metal or plastic rails up to 5 mm thick
- anti-slip joint
- coupling diameter 10 mm
- suitable for thread-through holes from PG 7 to PG 29

Code	Ø (mm)	Weight (g)	
1942	13 - 16 - 19 - 21 - 23 - 26 - 29 - 32 - 35 - 38	160	1/1

STEP DRILL BIT · HSS · FOR METRIC THREADS




- specifically designed for drilling nut and through holes with threads from M12 x 1.5 to M40 x 1.5
- coupling diameter 12 mm

Code	Ø (mm)	Weight (g)	
1943	6 - 10.5 - 12.5 - 14.5 - 16.5 - 18.5 - 20.5 - 23.5 - 25.5 - 30.5 - 32.5 - 38.5 - 40.5	230	1/1

RATCHET TAP WRENCH




BODY MATERIAL: chrome steel

Code	For male (mm)	Weight (g)	
1930	M3 ÷ M10	155	1/1

DRILL TAPS HSS-G DIN 371/B

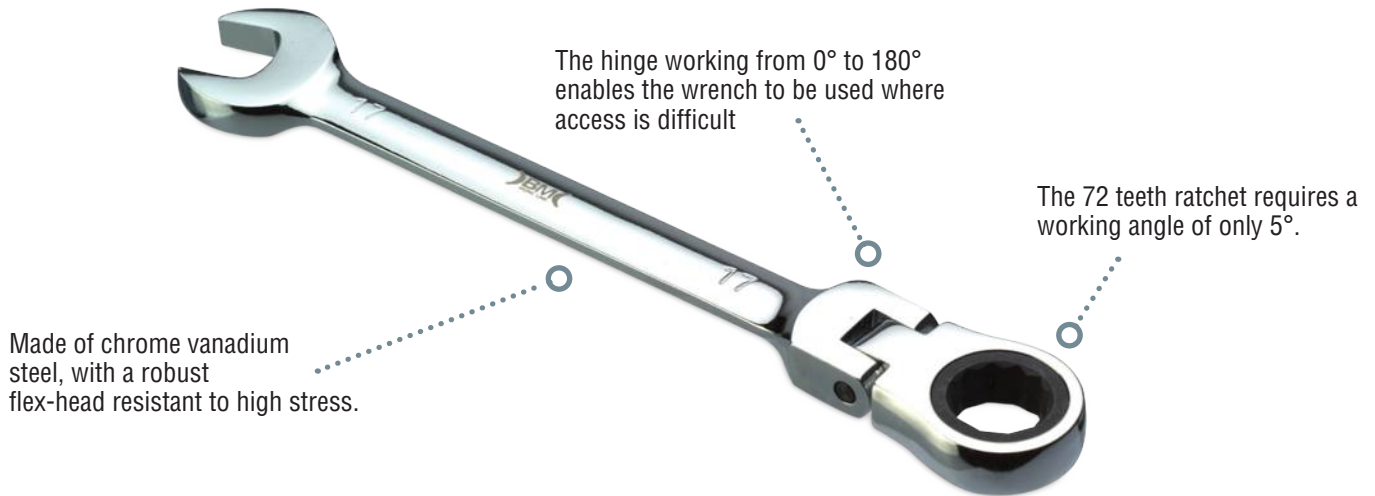


- metric thread ISO 2/6H, coarse pitch. Reinforced shank

Code	Thread (mm)	Weight (g)	
1934	M4	6	1/5
1935	M5	11	1/5
1936	M6	14	1/5
1938	M8	27	1/5

COMBINED RATCHET WRENCHES WITH SWIVEL POLYGON HEAD

BM combination ratcheting wrenches with flexible head are built and tested one by one to guarantee maximum efficiency and duration.



COMBINED RATCHET WRENCHES WITH SWIVEL POLYGON HEAD



MATERIAL: chrome-vanadium steel with shiny chrome plating

Code	○ (mm)	Length (mm)	Torque (Nm)	Weight (g)	
16608	8	140	36	54	1/5
16610	10	160	85	91	1/5
16613	13	176	138	119	1/5
16617	17	225	230	214	1/5

COMBINED RATCHET WRENCHES WITH SWIVEL POLYGON HEAD - 4 PCS SET



- the 72 tooth ratchet mechanism requires a shooting angle of only 5°
- the articulated and adjustable head up to 180° allows to operate in difficult access conditions

MATERIAL: chrome-vanadium steel with shiny chrome plating

SET CONSISTING OF: 4 pieces

Code	Weight (g)	
16698	500	1/5

Component	○ (mm)	Pcs
16608	8	1
16610	10	1
16613	13	1
16617	17	1

DOUBLE ENDED WRENCHES DIN 3110



MATERIAL: chrome-vanadium chromium-plated steel
ACCORDING TO STD.: DIN 3110

Code	○ (mm)	Length (mm)	Weight (g)	
16301	6 x 7	122	23	1/10
16302	8 x 9	140	39	1/10
16303	10 x 11	156	59	1/10
16304	12 x 13	172	81	1/10
16305	14 x 15	188	101	1/10
16306	16 x 17	203	125	1/5
16307	18 x 19	220	187	1/5
16308	20 x 22	233	217	1/5

COMBINATION WRENCHES DIN 3113



MATERIAL: chrome-vanadium chromium-plated steel
ACCORDING TO STD.: DIN 3113

Code	○ (mm)	Length (mm)	Weight (g)	
16506	6	100	15	1/10
16507	7	110	19	1/10
16508	8	120	29	1/10
16509	9	130	34	1/10
16510	10	140	37	1/10
16511	11	150	49	1/10
16512	12	160	55	1/10
16513	13	170	67	1/10
16514	14	180	86	1/10
16517	17	210	119	1/10
16519	19	230	167	1/10
16522	22	260	235	1/10

DOUBLE ENDED WRENCHES DIN 3110 - 8 PCS SET



MATERIAL: chrome-vanadium chromium-plated steel
ACCORDING TO STD.: DIN 3110
SET CONSISTING OF: 8 pieces

Code	Weight (g)	
1630	890	1/1

Component	○ (mm)	Pcs
16301	6 x 7	1
16302	8 x 9	1
16303	10 x 11	1
16304	12 x 13	1
16305	14 x 15	1
16306	16 x 17	1
16307	18 x 19	1
16308	20 x 22	1

COMBINATION WRENCHES DIN 3113 - 12 PCS SET



MATERIAL: chrome-vanadium chromium-plated steel

ACCORDING TO STD.: DIN 3113

SET CONSISTING OF: 12 pieces

Code	Weight (g)	
1650	1020	1/1

Component	Ø (mm)	Pcs
16506	6	1
16507	7	1
16508	8	1
16509	9	1
16510	10	1
16511	11	1
16512	12	1
16513	13	1
16514	14	1
16517	17	1
16519	19	1
16522	22	1

ALLEN WRENCHES DIN 911 90° BENDED - 9 PCS SET



MATERIAL: galvanized chrome-vanadium steel

ACCORDING TO STD.: DIN 911

SET CONSISTING OF: 9 pieces

Code	Weight (g)	
1620	230	1/10

Component	Ø (mm)	Pcs
16201	1,5	1
16202	2	1
16203	2,5	1
16204	3	1
16205	4	1
16206	5	1
16207	6	1
16208	8	1
16209	10	1

ALLEN WRENCHES DIN 911 BENDED 90°



MATERIAL: galvanized chrome-vanadium steel

ACCORDING TO STD.: DIN 911

Code	Ø (mm)	Length (mm)	Weight (g)	
16201	1,5	45 x 14	1	1/10
16202	2	50 x 16	2	1/10
16203	2,5	56 x 18	3	1/10
16204	3	63 x 20	5	1/10
16205	4	71 x 25	10	1/10
16206	5	80 x 28	18	1/10
16207	6	90 x 32	30	1/10
16208	8	100 x 36	60	1/10
16209	10	112 x 40	103	1/10

SPHERICAL HEAD ALLEN WRENCHES 90° BENDED - 9 PCS SET



9-piece set, sizes: 1.5-2-2.5-3-4-5-6-8-10 mm

MATERIAL: chrome-vanadium chromium-plated steel

SET CONSISTING OF: 9 pieces

Code	Weight (g)	
1621	435	1/1

ADJUSTABLE WRENCH



- ergonomic handle with anti-slip surface
- metric measuring scale

MATERIAL: chrome-vanadium chromium-plated steel

Code	Length (mm)	Opening (mm)	Weight (g)	
1610	200	24	330	1/1

UNIVERSAL SWITCH CABINET WRENCH



- square shapes: 5-6-7-8 mm
- triangular shape: 7-8 mm
- double notch: 3-5 mm
- adapter 1/4"
- screwdriver bit

Code	Weight (g)	
1625	60	1/5

1/4" SOCKET WRENCH SET - 47 PCS



47-piece chrome vanadium steel set in a plastic case:

- hexagonal sockets: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- slotted bit-sockets: 4 - 5,5 - 6,5 mm
- Phillips bit-sockets: N°1 - N°2 - N°3
- Pozidriv bit-sockets: N°1 - N°2 - N°3
- hexagonal bit-sockets: 3 - 4 - 5 - 6 - 7 - 8 mm
- Torx bit-sockets: T10 - T15 - T20 - T25 - T30 - T40
- hexagonal sockets extension : 8 - 10 - 11 - 13 mm
- allen wrenches 1,5 - 2 - 2,5 mm
- universal joint 40 mm
- extension bar 50 mm - 100 mm
- sliding T-handle 115 mm
- spinner handle 145 mm
- reversible ratchet handle 140 mm

Code	Weight (g)	
1640	1520	1/1

HAMMERS



• hardened and varnished C 45 steel. Shaped ash wood handle, nylon protection collar, steel wedge lock

Code	Weight (g)	
1715	200	1/12
1716	300	1/12

RUBBER HAMMER



• rubber-covered hammer with metallic core

Code	Weight (g)	
1740	700	1/6

THREE-COMPONENT HAMMER



• hardened and varnished C 45 steel. Patented nylon handle, anti-slip rubber grip, aluminum alloy core, anti-vibration

Code	Weight (g)	
1710	300	1/6

SLEDGE HAMMER



• hardened and varnished C 45 steel. Shaped ash wood handle, nylon protection collar, steel wedge lock

Code	Weight (g)	
1720	800	1/18
1721	1000	1/18

SUCTION LIFTER · 1 CUP



- universal suction lifter for different loads
- suitable for all kind of surfaces: flat, gas-proof, slightly curved or structural
- suction pad 120 mm
- aluminum structure
- handle and levers in synthetic material

Code	Description	Maximum load	Weight (g)	
1760	suction lifter 1 cup	30 kg - vert.	425	1/1
1761	spare cup			1/1

SUCTION LIFTER · 2 CUPS



- universal suction lifter for different loads
- suitable for all kind of surfaces: flat, gas-proof, slightly curved or structural
- suction pad 120 mm
- aluminum structure
- handle and levers in synthetic material

Code	Description	Maximum load	Weight (g)	
1770	suction lifter 2 cups	60 kg - parall.	860	1/1
1771	spare cup			

WOOD MEASURING RULER



- wood, with spring, millimetric graduation on both sides

Code	Length (m)	
1410	2	1/12

CHALK REEL



- aluminium body, 15 metres long cotton twine, handle for rewinding and locking the cord

Code	Weight (g)	
1430	280	1/6

TAPE MEASURE



- body in bi-component material ABS and rubber, with back hook
- tape in hardened and painted steel C60, double-stop device, stop damper, movable butt for inner and outer measuring, reinforced with duralumin
- accuracy class: II (second)

Code	Length (m)	Height (mm)	
1423	3	16	1/12
1424	5	19	1/12

CHALK FOR CHALK REEL



Code	Weight (g)	Chalk colour	
1431	250	Blue	1/6
1432	250	Red	1/6



REWINDING MEASURING TAPE



- shockproof rubber coated ABS case, folding tape winding crank, fiberglass tape. Centimetres and metres marks on both sides

Code	Length (m)	Height (mm)	
1421	20	14	1/1

SPIRIT LEVEL - MINI



- made with painted structural aluminum, one vial. Accuracy 1 mm per 1 m

Code	Length (mm)	
1551	150	1/30

SPIRIT LEVEL - MAXI



- made with painted structural aluminium, three vials with the possibility of adjusting the central one. Accuracy 0,5 mm per 1 m

Code	Length (mm)	
1554	400	1/10
1555	600	1/10

SPIRIT LEVEL - POCKET



- made with painted structural aluminium, two vials. Accuracy 0,5 mm per 1 m

Code	Length (mm)	
1552	220	1/20

SPIRIT LEVEL - WITH MAGNETIC BASE



- made with painted structural aluminum, two vials. Accuracy 0,5 mm per 1 m

Code	Length (mm)	
1553	220	1/20

VOLTAGE TESTER


- protection class IP 65
 - security alarm
 - acoustic and LED continuity detector
 - measuring category: cat IV 600 V - cat III 1000 V
- ACCORDING TO STD.:** IEC/EN 61243-3

Code	Voltage range (V)	
1143	12-1000	1/1


IP65
MULTI-DETECTOR


- simple three-function tool
- it detects wood, metal and active electric cables hidden in walls with an acoustics and luminous signal
- it is controlled by a processor
- the depth it can reach depends on the type of surface up to a maximum of 50 mm with plasterboard

Code	Weight (g)	
1560	200	1/1

CONTINUITY AND LINE TESTER


- for low resistance testing
 - with acoustic and visual alarms
 - it can be used as a torch
 - battery not included
- ACCORDING TO STD.:** IEC/EN 61010-1

Code	Electric resistance range (KΩ)	
1144	1, 10, 100	1/1



TOOL CASES



POUCH



- empty reinforced nylon pouch

Code	Description
18030	Pouch

POUCH + TOOL SET (5 PCS)



- reinforced nylon pouch complete with 5 tools:
- VDE insulated Phillips screwdriver 1x8
 - VDE insulated slotted screwdriver 3x100
 - VDE insulated slotted screwdriver 4x100
 - cutter/stripper scissor + case
 - VDE insulated combination pliers 180

Code	Description
18030M1	Pouch + 5 tools

SOFT BACKPACK/TROLLEY



- canvas trolley backpack
- in high resistance fabric
- side handle
- double pocket and reflective band on the front
- internal compartment with mesh pocket and two removable tool panels that can be used separately

Code	Description	Dimensions (mm)
1815	Canvas backpack/trolley	360x250x540

CANVAS SOFT BAG



- soft canvas bag
- in high resistance fabric
- two separate internal compartments with pockets and elastic tool holders
- it can be fully opened
- removable shoulder strap
- tubular aluminium handle with optional cover
- rigid base with rubber feet

Code	Description	Dimensions (mm)
1814	Canvas soft bag	370x270x360

SOFT BACKPACK/TROLLEY + TOOL SET (14 PCS)



canvas trolley backpack
in high resistance fabric
side handle
double pocket and reflective band on the front
internal compartment with mesh pocket and two removable tool panels that can be used separately

complete with 14 tools:

- VDE insulated slotted screwdriver 3x100
- VDE insulated slotted screwdriver 4x100
- VDE insulated slotted screwdriver 5,5x125
- VDE insulated slotted screwdriver 6,5x150
- VDE insulated screwdriver, PH 0 head
- VDE insulated screwdriver, PH 1 head
- VDE insulated screwdriver, PH 2 head
- voltage tester 3x60 250 V
- VDE insulated combination pliers 180
- cutter/stripper scissors + case
- pocket saw
- measuring tape: 3 m - W=16 mm bi-component
- pocket spirit level 220 mm
- hammer 300 gr

Code	Description	Dimensions (mm)
1815A1	Canvas backpack/trolley + 14 tools	360x250x540

Components	Description
1815	Canvas backpack/trolley
18A1	14-piece tool set

CANVAS SOFT BAG + TOOL SET (14 PCS)



soft canvas bag
in high resistance fabric
two separate internal compartments with pockets and elastic tool holders
it can be fully opened
removable shoulder strap
tubular aluminium handle with optional cover
rigid base with rubber feet

complete with 14 tools:

- VDE insulated slotted screwdriver 3x100
- VDE insulated slotted screwdriver 4x100
- VDE insulated slotted screwdriver 5,5x125
- VDE insulated slotted screwdriver 6,5x150
- VDE insulated screwdriver, PH 0 head
- VDE insulated screwdriver, PH 1 head
- VDE insulated screwdriver, PH 2 head
- voltage tester 3x60 250 V
- VDE insulated combination pliers 180
- cutter/stripper scissors + case
- pocket saw
- measuring tape: 3 m - W=16 mm bi-component
- pocket spirit level 220 mm
- hammer 300 gr

Code	Description	Dimensions (mm)
1814A1	Canvas soft bag + 14 tools	370x270x360

Components	Description
1814	Canvas soft bag
18A1	14-piece tool set

WATERPROOF CASE



- case made of Ultra High-Impact and dust-proof ABS plastic
- the seal along the entire closing line guarantees airtight sealing and watertightness
- internal air pressure compensation valve
- resistant to weather and corrosive agents
- document pocket, tool panel, thermoformed tray
- removable shoulder strap

Code	Description	Dimensions (mm)
1816	Waterproof case	430x286x159

WATERPROOF CASE + TOOL SET (14 PCS)



case made of Ultra High-Impact and dust-proof ABS plastic. the seal along the entire closing line guarantees airtight sealing and watertightness. internal air pressure compensation valve. resistant to weather and corrosive agents. document pocket, tool panel, thermoformed tray, removable shoulder strap.

- complete with 14 tools:
- VDE insulated slotted screwdriver 3x100
 - VDE insulated slotted screwdriver 4x100
 - VDE insulated slotted screwdriver 5,5x125
 - VDE insulated slotted screwdriver 6,5x150
 - VDE insulated screwdriver, PH 0 head
 - VDE insulated screwdriver, PH 1 head
 - VDE insulated screwdriver, PH 2 head
 - voltage tester 3x60 250 V
 - VDE insulated combination pliers 180
 - cutter/stripper scissors + case
 - pocket saw
 - measuring tape: 3 m - W=16 mm bi-component
 - pocket spirit level 220 mm
 - hammer 300 gr

Code	Description	Dimensions (mm)
1816A1	Waterproof case + 14 tools	430x286x159

Components	Description
1816	Waterproof case
18A1	14-piece tool set

ALUMINIUM CASE



- aluminium case with rounded and reinforced corners
- chrome-plated handle with soft grip
- locks with keys
- two toolholder panels
- thermoformed tray
- removable shoulder strap

Code	Description	Dimensions (mm)
18500	Aluminium case	450x330x152

ALUMINIUM CASE + TOOL SET (14 PCS)



aluminium case with rounded and reinforced corners, chrome-plated handle with soft grip, locks with keys, two toolholder panels, thermoformed tray, removable shoulder strap.

- complete with 14 tools:
- VDE insulated slotted screwdriver 3x100
 - VDE insulated slotted screwdriver 4x100
 - VDE insulated slotted screwdriver 5,5x125
 - VDE insulated slotted screwdriver 6,5x150
 - VDE insulated screwdriver, PH 0 head
 - VDE insulated screwdriver, PH 1 head
 - VDE insulated screwdriver, PH 2 head
 - voltage tester 3x60 250 V
 - VDE insulated combination pliers 180
 - cutter/stripper scissors + case
 - pocket saw
 - measuring tape: 3 m - W=16 mm bi-component
 - pocket spirit level 220 mm
 - hammer 300 gr

Code	Description	Dimensions (mm)
18500A1	Aluminium case + 14 tools	450x330x152

Components	Description
18500	Aluminium case
18A1	14-piece tool set

ALUMINIUM TROLLEY



- aluminium trolley case
- rounded and reinforced corners
- chrome-plated handle with soft grip
- locks with keys
- document pocket
- two toolholder panels
- thermoformed tray

Code	Description	Dimensions (mm)
18400	Aluminium trolley	482x340x205

ABS TROLLEY TOP



- thermoformed ABS trolley case with aluminium seals
- robust trolley with telescopic handle
- locks with keys
- chrome-plated handle with soft grip
- wheels with a 110 mm diameter, ideal for all surfaces
- document pocket
- two toolholder panels
- thermoformed ABS tray
- two boxes for small components

Code	Description	Dimensions (mm)
1817	ABS trolley	510x375x240

**CHOOSE
THE BAG
OR
CASE
THAT BEST SUITS
YOUR NEEDS AND
COMPLETE IT
WITH THE MOST
APPROPRIATE TOOL
ASSORTMENT
FOR YOU**

On the next page you can find three different assortment proposals to choose from:

- **33 tools for every need**
- **29 frequently used tools**
- **14 essential tools**



Please, remember to put

**THE BAG
CODE**



**THE ASSORTMENT
CODE**

in your order.

ASSORTMENTS

TOOLS

		18A3 33-Piece tool set	18A2 29-Piece tool set	18A1 14-Piece tool set
Code	Description			
1113	VDE insulated slotted screwdriver 3x100 mm			
1114	VDE insulated slotted screwdriver 4x100 mm			
1115	VDE insulated slotted screwdriver 5.5x125			
1116	VDE insulated slotted screwdriver 6.5x150			
1120	VDE insulated screwdriver, PH 0 head			
1121	VDE insulated screwdriver, PH 1 head			
1122	VDE insulated screwdriver, PH 2 head			
1131	VDE insulated screwdriver Pozidriv 1			
1132	VDE insulated screwdriver Pozidriv 2			
1141	Voltage tester 3x60 mm 250 V			
1212	VDE insulated combination pliers 180 mm			
1221	VDE insulated side cutter 160 mm			
1251	VDE insulated flat nose pliers 160 mm			
1274	VDE insulated water pump pliers			
1325	Cutter/stripper scissors + case			
1370	Automatic stripping tool 0,2-6 mm ²			
534	Crimping pliers for 0.5-6 mm insulated terminals			
1341	Pocket saw			
1423	Measuring tape 3 m - W=16 mm bi-component			
1552	Pocket spirit level 220 mm			
1716	Hammer 300 gr			
1630	Double ended wrenches - 8 pcs set	x8	x8	
1625	Universal switch cabinet wrench			
1140	1/4 bits - 7 pcs set			
1430	Chalk reel			
1431	Blue chalk for chalk reel			

CASE WITH BOXES FOR SMALL COMPONENTS



- case with propylene boxes
- double hook locking system
- roomy storage under the lid
- strong frame that can be used as a seat

Code	Description	Dimensions (mm)
1818	Case with boxes for small components	420x303x400

PLASTIC CASE



- plastic case
- removable containers

Code	Description	Dimensions (mm)
00405	Plastic case	420x330x65

TOOL BOX



- shockproof plastic box
- tray and 2 removable boxes for small components

Code	Description	Dimensions (mm)
1880	Tool box	520x290x270

BOX FOR SMALL COMPONENTS



Code	Description	Dimensions (mm)	Slots
1881		230x125x35	18
1882		292x186x42	18
1883		382x234x48	24



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CRIMPING TOOL GUIDE

FOR CLASS 1,2,5,6 UNINSULATED TERMINALS AND GROUND NETWORK

L.V. COPPER TERMINAL LUGS

- uninsulated from sheet: ring
fork
round pin
silver alloy brazed DIN 46234
- uninsulated from tube: straight, bent 45°, bent 90°
for class 6 conductors
with small plate
fork
pin

COPPER TERMINAL FOR GROUND NETWORK

- uninsulated long barrel for land network
- uninsulated with ring for land network
- uninsulated rectangular for land network

L.V. BUTT CONNECTORS

- uninsulated butt connectors (L.V.)
- uninsulated parallel connectors (L.V.)

Crimping tool		Section mm ² (AWG)																								
Type	Code	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)		
manual	HB	522																								
	CRIM	535																								
		5305 (kit)																								
	CRIMDEM	5351																								
		5345 (kit)																								
	CRIMPAR	53P000 + 53M5N2																								
		53P000 + 53M5N1																								
		53KPBF (kit)																								
	parallel	6534 + 635D																								
	long handles	526																								
510																										
512																										
523																										
pneumatic	582 + series 82																									
hydraulic	1661 + 535D																									
	50 kN	182/182P (*) + series 82																								
		1823/1824 (*) + series 82																								
		1823P + series 82																								
		1823A1/A2/A3/A4 + series 82																								
		200 + series 82																								
	200PA + series 82																									
	60 kN	1833/1833A1 + series 83																								
	80 kN	183/183P (*) + series 83																								
	120 kN	184P/184PL + series 84																								
125 kN	184 (*) + series 84																									
130 kN	186 + series 84																									
battery	55 kN	37A055/37A055A1 + series 83																								
	60 kN	383 (*) + series 83																								
	62 kN	38A062 + series 85																								
	120 kN	384 (*) + series 84																								
	130 kN	38A130 + series 84																								
	38A130L + series 84																									
head	50 kN	200A + series 82																								
	60 kN	2833 + series 83																								
	80 kN	283 (*) + series 83																								
	120 kN	284/284L + series 84																								
		286 + series 84																								
230 kN	270 + series 70																									

(*) item running out

CL5 = only Class 5 terminals (no Class 6 terminals that have sections not greater than 185 mm²)

CRIMPING TOOL GUIDE

FOR L.V. DIN AND NFC TERMINALS

L.V. COPPER TERMINAL LUGS

- uninsulated compliant to DIN 46235 (L.V.)
- uninsulated compliant to DIN 46235 in untinned copper (L.V.)
- uninsulated 90° bended obtained from terminal lugs compliant to DIN 46235 (L.V.)
- uninsulated NFC terminals (L.V.)

L.V. BUTT CONNECTORS

- uninsulated compliant to DIN 46267/1 (L.V.)

Crimping tool		Section mm ² (AWG)																								
Type	Code	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)		
manual	long handles	524																								
		525																								
		511																								
		513																								
		582 + series 82																								
hydraulic	50 kN	182/182P (*) + series 82																								
		1823/1824 (*) + series 82																								
		1823P + series 82																								
		1823A1/A2/A3/A4 + series 82																								
		200 + series 82																								
	200PA + series 82																									
	60 kN	1833/1833A1 + series 83							NF	NF																
	80 kN	183/183P (*) + series 83							NF	NF																
	120 kN	184P + series 84								NF																
	120 kN	184PL + series 84								NF														NF		
125 kN	184 (*) + series 84								NF														NF			
130 kN	186 + series 84								NF														NF			
battery	55 kN	37A055/37A055A1 + series 83							NF	NF																
	60 kN	383 (*) + series 83							NF	NF																
	62 kN	38A062 + series 85								NF													NF			
	120 kN	384 (*) + series 84								NF																
	130 kN	38A130 + series 84								NF																
130 kN	38A130L + series 84								NF														NF			
head	50 kN	200A + series 82																								
	60 kN	2833 + series 83								NF	NF															
	80 kN	283 (*) + series 83								NF	NF															
	120 kN	284 + series 84									NF															
		284L + series 84									NF													NF		
		286 + series 84																								

(*) item running out

NF = only FNC terminals (no DIN terminals)

CRIMPING TOOL GUIDE

FOR UNINSULATED TERMINALS M.V.

M.V. COPPER TERMINAL LUGS

- uninsulated
- uninsulated with double hole

M.V. COPPER JOINTS

- uninsulated

Crimping tool		Section mm ² (AWG)															
Type	Code	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
hydraulic	50 kN	582 + series 82															
		182/182P (*) + series 82															
		1823/1824 (*) + series 82															
		1823P + series 82															
		1823A1/A2/A3/A4 + series 82															
		200 + series 82															
	60 kN	200PA + series 82															
	60 kN	1833/1833A1 + series 83															
	80 kN	183/183P (*) + series 83															
	120 kN	184P/184PL + series 84															
125 kN	184 (*) + series 84																
130 kN	186 + series 84																
battery	55 kN	37A055/37A055A1 + series 83															
	60 kN	383 (*) + series 83															
	62 kN	38A062 + series 85															
	120 kN	384 (*) + series 84															
	130 kN	38A130 + series 84															
	38A130L + series 84																
head	50 kN	200A + series 82															
	60 kN	2833 + series 83															
	80 kN	283 (*) + series 83															
	120 kN	284/284L + series 84															
	286 + series 84																

(*) item running out

CRIMPING TOOL GUIDE

FOR UNINSULATED ALUMINUM AND BIMETALLIC TERMINALS

ALUMINUM TERMINAL LUGS

- uninsulated for aluminum conductors DIN 48201

BIMETALLIC TERMINAL LUGS

- uninsulated ring
- uninsulated ring DIN 48201

ALUMINUM JOINTS

- uninsulated for DIN 48201 aluminum conductors
- uninsulated for Medium Voltage aluminum conductors
- uninsulated reduction joints for Medium Voltage aluminum or copper conductors

Crimping tool		Section mm ² (AWG)															
Type	Code	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)
manual	long handles	582 + series 82															
		182/182P (*) + series 82															
		1823/1824 (*) + series 82															
	50 kN	1823P + series 82															
		1823A1/A2/A3/A4 + series 82															
		200 + series 82															
hydraulic		200PA + series 82															
	60 kN	1833/1833A1 + series 83															
	80 kN	183/183P (*) + series 83															
	120 kN	184P/184PL + series 84															
	125 kN	184 (*) + series 84															
	130 kN	186 + series 84															
battery		186 + series 86															
	55 kN	37A055/37A055A1 + series 83															
	60 kN	383 (*) + series 83															
	62 kN	38A062 + series 85															
	120 kN	384 (*) + series 84															
	130 kN	38A130 + series 84															
head		38A130L + series 84															
	50 kN	200A + series 82															
	60 kN	283 (*) + series 83															
	80 kN	2833 + series 83															
		284/284L + series 84															
	120 kN	286 + series 84															
		286 + series 86															

(*) item running out

D = only aluminum and bimetallic DIN

CRIMPING TOOL GUIDE

FOR INSULATED TERMINALS

PVC INSULATED TERMINALS

- insulated from sheet: ring
fork
round and blade pin
- insulated from sheet and anti-vibrating: ring
fork
round pin

L.V. NYLON INSULATED TERMINALS

- insulated from sheet: ring
fork
round blade pin
- insulated from tube: black
black nylon for class 6 conductors
black with small plate
black with fork
black with blade pin
coloured

BUTT CONNECTORS

- PVC insulated
- nylon insulated
- with heat shrinking insulation (only with "T")

ONE -WAY TERMINAL BLOCKS

- close end connectors for clamping (only with "C")

Crimping tool		Section mm ² (AWG)																								
Type	Code	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)		
manual	HB 536		+T	+T	+T	+T	+T	+T	+T																	
	CRIM 534																									
	CRIMDEM 5341																									
	CRIMDEM 5345 (kit)																									
	CRIMPAR 53P02H																									
	CRIMPAR 53P000 + 53M02H																									
	CRIMPAR 53KPBF (kit)																									
	parallel 6534 + 634D																									
	parallel 6534 + 636D																									
	long handles 528			C, T	C, T	C, T	C, T	C, T	C, T	C, T																
pneumatic	528 + series 82																									
	1661 + 534D																									
hydraulic	182/182P (*) + series 82																									
	1823/1824 (*) + series 82																									
	50 kN 1823P + series 82																									
	50 kN 1823A1/A2/A3/A4 + series 82																									
	50 kN 200 + series 82																									
	50 kN 200PA + series 82																									
	60 kN 1833/1833A1 + series 83																									
	80 kN 183/183P (*) + series 83																									
	120 kN 184P/184PL + series 84																									
	125 kN 184 (*) + series 84																									
battery	130 kN 186 + series 84																									
	55 kN 37A055/37A055A1 + series 83																									
	60 kN 383 (*) + series 83																									
	62 kN 38A062 + series 85																									
	120 kN 384 (*) + series 84																									
head	130 kN 38A130 + series 84																									
	130 kN 38A130L + series 84																									
	55 kN 200A + series 82																									
	60 kN 283 (*) + series 83																									
head	80 kN 2833 + series 83																									
	120 kN 284/284L + series 84																									
head	120 kN 286 + series 84																									
	120 kN 286 + series 84																									

(*) item running out

CT = butt connectors with heat shrinking insulation and close end connectors

+T = the tool crimps butt connectors with heat shrinking insulation in addition to PVC and nylon insulated terminals

CRIMPING TOOL GUIDE

FOR END-SLEEVES

- uninsulated single cable
- insulated single cable
- insulated single cable in a strap (only with "S")
- insulated double cable

Crimping tool		Section mm ² (AWG)																					
Type	Code	0,08 (28)	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)		
manual	HB	540																					
		541																					
		542																					
	CRIM	537																					
		539																					
		533																					
		5305 (kit)																					
	CRIMDEM	5371																					
		5391																					
		5331																					
	CRIMPAR	5345 (kit)																					
		53P02E																					
		53P000 + 53M02E																					
		53P2E1																					
		53P000 + 53M2E1																					
		53P000 + 53M5D2																					
		53P5D1																					
		53P000 + 53M5D1																					
		53KPBF (kit)																					
		53P000 + 53M2E4				D	D	D	D	D	D	D											
53P000 + 53M2E5											D	D											
CRIMQ	5382																						
	53816																						
long handles	527																						
	582 + series 82																						
strap	5375			S	S	S	S	S															
	1661 + 537D																						
pneumatic	1661 + 539D																						
	182/182P (*) + series 82																						
hydraulic	50 kN																						
	1823/1824 (*) + series 82																						
	1823P + series 82																						
	1823A1/A2/A3/A4 + series 82																						
	200 + series 82																						
	200PA + series 82																						
	60 kN																						
	80 kN																						
	120 kN																						
	125 kN																						
130 kN																							
battery	55 kN																						
	60 kN																						
	62 kN																						
	120 kN																						
	130 kN																						
	130 kN																						
head	55 kN																						
	60 kN																						
	80 kN																						
	120 kN																						

(*) item running out
 S = only end-sleeves in a strap
 D = only double cable end-sleeves

CRIMPING TOOL GUIDE

FOR UNINSULATED BRASS QUICK-CONNECTORS

- uninsulated female
- uninsulated female flag type
- uninsulated male
- uninsulated female+male
- uninsulated from sheet open brass

Crimping tool		Section mm ² (AWG)										
Type		Code	0,1 (27)	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	
in-line	manual	HB	530									
		CRIM	531									
			5305 (kit)									
		CRIMDEM	5313									
			5345 (kit)									
		CRIMPAR	53P000 + 53M2CL									
	pneumatic		53P000 + 53M02C									
			6534 + 631D									
		parallel	6534 + 6311D									
			6534 + 6321D									
			6534 + 6322D									
			1661 + 531D									
lateral	manual	CRIM	5311									
			5312									
		CRIMDEM	5314									
		5315										
	parallel		6534 + 6321D									
			6534 + 6322D									

CRIMPING TOOL GUIDE

FOR INSULATED QUICK-CONNECTORS

PVC QUICK-CONNECTORS TERMINALS

- insulated and anti-vibrating: female
 - female totally insulated
 - male
 - female+male

NYLON QUICK-CONNECTORS TERMINALS

- insulated and anti-vibrating: female totally insulated
- male totally insulated
- flag type totally insulated: female

PVC CYLINDER PLUG

- insulated cylinder plug and anti-vibrating: female
- male

NYLON CYLINDER PLUG

- insulated cylinder plug and anti-vibrating: female
- male

Crimping tool		Section mm ² (AWG)									
Type	Code	0,1 (27)	0,25 (22)	0,5 (20)	0,75 (18)	1 (17)	1,5 (16)	2,5 (14)	4 (12)	6 (10)	
in-line	manual	HB	536								
		CRIM	534								
			5305 (kit)								
		CRIMDEM	5341								
			5345 (kit)								
	pneumatic		53P02H								
		CRIMPAR	53P000 + 53M02H								
			53KPBF (kit)								
		parallel	6534 + 636D								
			1661 + 534D								
lateral	manual	CRIM	532								
		CRIMPAR	53P000+53M02F								

CRIMPING TOOL GUIDE

FOR C-SHUNT

- copper bright
- tinned

Crimping tool		Section mm ² (AWG)																
Type	Code	6 (10)	10 (8)	16 (6)	25 (4)	35 (2)	50 (1/0)	70 (2/0)	95 (3/0)	120 (4/0)	150 (300)	185 (400)	240 (500)	300 (600)	400 (800)	500 (1000)	630 (1250)	
manual	long handles	529																
		582 + series 82																
	50 kN	182/182P (*) + series 82																
		1823/1824 (*) + series 82																
		1823P + series 82																
hydraulic	50 kN	1823A1/A2/A3/A4 + series 82																
		200 + series 82																
	60 kN	200PA + series 82																
		1833/1833A1 + series 83																
		183/183P (*) + series 83																
		120 kN	184P/184PL + series 84															
	125 kN	184 (*) + series 84																
	130 kN	186 + series 84																
	battery	55 kN	37A055/37A055A1 + series 83															
		60 kN	383 (*) + series 83															
62 kN		38A062 + series 85																
120 kN		384 (*) + series 84																
130 kN		38A130 + series 84																
head	55 kN	38A130L + series 84																
		200A + series 82																
	60 kN	283 (*) + series 83																
	80 kN	2833 + series 83																
	120 kN	284/284L + series 84																
		286 + series 84																

(*) item running out

DEFINITIONS

Term	Definition	Reference
BARREL (OF TERMINAL LUG, CONNECTOR, ETC)	Part of a device into which the conductor to be connected is introduced.	IEV 461-17-06
CLASS 1 CONDUCTORS	Copper or aluminium solid conductors with circular or shaped cross-section for single-core and multi-core cables.	EN 60228
CLASS 2 CONDUCTORS	Copper or aluminum stranded (multiple wires) circular non-compacted (wires with the same circular section) or circular compacted (wires with different circular sections) or shaped for single-core and multiple-core cables.	EN 60228
CLASS 5 CONDUCTORS	Copper flexible conductors (multiple wires) with wires with the same circular section for single-core and multiple-core cables.	EN 60228
CLASS 6 CONDUCTORS	Copper flexible conductors (which are more flexible than class 5 conductors) with wires with the same circular section for single-core and multiple-core cables.	EN 60228
COMPRESSION JOINTING	Method of securing a connector to a conductor by using a special tool to produce permanent deformation of connector and conductor.	---
MECHANICAL JOINTING	Method of securing a connector to a conductor, for example by means of a bolt or screw working on the latter or by alternative methods.	---
CONNECTOR (CABLES)	Metallic device for connecting a conductor to an equipment terminal or for connecting two or more conductors to each other.	EN 61238-1
INSULATION PIERCING CONNECTOR (IPC)	Connector in which the electrical contact with the conductor is made by metallic protusions which pierce the insulation of the cable core.	IEV 461-11-08
BRANCH CONNECTOR	Metallic device for connecting a branch conductor to a main conductor at an intermediate point on the latter.	IEV 461-17-05
TERMINAL LUG	Metallic device to connect a cable conductor to other electrical equipment.	IEV 461-17-01
CORRENTE NOMINALE	Valore di corrente assegnato dal costruttore, che il connettore può portare con continuità (senza interruzione) e contemporaneamente attraverso tutti i suoi contatti, cablati con il conduttore specificato di più elevata Section, preferibilmente ad una temperatura ambiente di 40°C, senza che sia superata la temperatura limite superiore.	EN 61984
MULTIWAY TERMINAL DEVICE	Connecting device that is made of several terminals, insulated from each other in a common housing of insulation material, which can be split by the user to make connecting devices with one or more terminals.	EN 60998-1
CLEARANCE	Shortest distance between two conductive parts or between a conductive part and the device accessible surface.	EN 60335-1
CABLE TIE	Band or length of material, employing a docking device, used for bundling or tying groups of cables together, securing and/or supporting the cables.	EN 62275
THROUGH CONNECTOR	Metallic device for connecting two consecutive lengths of a conductor.	IEV 461-17-04
TERMINAL BLOCK	Assembly of terminals in a housing or body of insulating material to facilitate the interconnection among multiple conductors.	IEV 581-26-26
FLAT QUICK-CONNECT TERMINAL	Electrical connection consisting of a male tab and a female connector, which can be inserted and withdrawn with or without a tool.	EN 61210
PALM (OF A TERMINAL LUG)	Part of a terminal lug used for the connection to an electrical equipment.	IEV 461-17-07
CABLE GLAND	A device designed to allow the entry of a cable, a flexible cable or an insulated conductor in a casing and to provide sealing and tightness.	EN 62444
RATED IMPULSE VOLTAGE	Voltage derived from the rated voltage and the overvoltage category of the devices, characterizing the specified resistance capability of its insulation against transient overvoltages.	EN 60335-1
RATED VOLTAGE	Value of voltage assigned by the manufacturer to the connector and to which operation and performance characteristics are referred.	EN 61984
RATED INSULATION VOLTAGE	r.m.s. withstand voltage value assigned by the manufacturer to the connector, characterizing the specified (long term) withstand capability of its insulation. The rated insulation voltage is not necessarily equal to the rated voltage, which is primarily related to functional performance.	EN 61984

STANDARDS

Standard	Title
DIN 46228-1	Tubular ferrules without plastic sleeve.
DIN 46228-4	Tubular ferrules with plastic sleeve.
DIN 46234	Terminal ends for solderless connections; ring type without insulation sleeve for copper conductors.
DIN 46235	Cable lugs for compression connections for copper conductors > 6 mm ² .
DIN 46267-1	Uninsulated connectors not resistant to high tensile stress for copper conductors > 6 mm ² .
DIN 48083-1	Dies for pressure connections; mechanical presses with nominal compressive force up to 15 and to 60 kN. Fitting dimensions.
DIN 48083-3	Dies for pressure connections; hydraulic presses with nominal compressive force up to 300, up to 450 and up to 1000 kN. Fitting dimensions.
DIN 48083-4	Press dies for compression connections; dimensions of the hexagonal pressing shapes.
DIN 48201-1	Copper stranded conductors.
DIN 48201-5	Aluminium stranded conductor.
EN 60228	Conductors for insulated cables.
EN 60335-1	Household and similar electrical appliances – Safety. Part 1: General requirements.
EN 60352-2	Solderless connections. Part 2: Crimped connections – General requirements, test methods and practical guidance.
EN 60454-3-1	Pressure-sensitive adhesive tapes for electrical purposes. Part 3: Specifications for individual materials. Sheet 1: PVC film tapes with pressure-sensitive adhesive.
EN 60695-2-10	Fire hazard testing. Part 2-10: Glowing/hot-wire based test methods. Glow-wire apparatus and common test procedure.
EN 60695-2-11	Fire hazard testing. Part 2-11: Glowing/hot wire based tests methods – Glow-wire flammability test method for end products.
EN 60695-2-12	Fire hazard testing. Part 2-12: Glowing/hot wire based tests methods. Glow-wire flammability test method for materials.
EN 60947-1	Low-voltage switchgear and controlgear. Part 1: General uses
EN 60947-7-1	Low-voltage switchgear and controlgear. Part 7-1: Ancillary equipment – Terminal blocks for copper conductors.
EN 60998-1	Connecting devices for low-voltage circuits for household and similar purposes. Part 1: General requirements.
EN 60998-2-1	Connecting devices for low-voltage circuits for household and similar purposes. Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units.
EN 61210	Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements
EN 61386-1	Conduit systems for cable management. Part 1: General requirements.
EN 61386-21	Conduit systems for cable management. Part 21: Particular requirements – Rigid conduit systems.
EN 61984	Connectors - Safety requirements and tests.
EN 62275	Cable management systems. Cable ties for electrical installations.
EN 62444	Cable glands for electrical installations.
UL 310	Quick-Connect Terminals.
UL 486A-486B	Wire connectors
UL 486C	Splicing Wire Connectors
UL 486F	Bared and Covered ferrules

RETIE CERTIFIED CODES

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APPROXIMATE CORRESPONDENCE BETWEEN SECTIONS OF THE AMERICAN AND EUROPEAN STANDARD

American Standard sections			European standard sections
AWG	MCM	(mm ²)	mm ²
30	-	0,0507	-
29	-	0,0647	-
28	-	0,0804	0,08
27	-	0,102	0,1
26	-	0,128	0,14
25	-	0,162	-
24	-	0,205	0,2 - 0,25
23	-	0,259	0,25
22	-	0,324	0,34
21	-	0,412	-
20	-	0,519	0,5
19	-	0,653	-
18	-	0,823	0,75 - 1
17	-	1,04	1
16	-	1,31	-
15	-	1,65	1,5
14	-	2,08	-
13	-	2,63	2,5
12	-	3,31	-
11	-	4,17	4
10	-	5,26	-
9	-	6,63	6
8	-	8,37	-
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 (0)	-	53,5	50
2/0 (00)	-	67,4	70
3/0 (000)	-	85,0	95
4/0 (0000)	-	107,2	-
-	250	127	120
-	300	152	150
-	350	177	-
-	400	203	185
-	500	253	240
-	600	304	300
-	700	355	-
-	800	405	400
-	900	456	-
-	1000	507	500
-	1250	633	630
-	1500	760	800
-	1750	887	-
-	2000	1010	1000

The table shows the approximate correspondences between the sections of the American standard and the European ones.

NOTE

American and European standards provide normalized sections.

The American standard defines the normalized cross sections of conductors in AWG (American Wire Gauge) and MCM (short for thousands of circular mils or kcmil). These sections are reported respectively in the first and second columns of the table.

All sections of the American standard can be expressed in cmil, but for all practical purposes only the sections starting from 250 kcmil are expressed in kcmil (1 MCM = 1kcmil = 1000 cmil), while the lower sections are expressed in AWG. The American standard also provides both even and odd AWG, but only few manufacturers have cables with odd AWG sections in their catalog. The third column shows the equivalences in mm² (exact correspondences) of the American standard section. These equivalences are taken from UL 1581 (Reference Standard for Electrical Wires, Cables, and Flexible Cords).

The European standard is based on the metric system and defines the normalized cross-sections of conductors in square millimeters (mm²). These sections are in the fourth column of the table and are taken from the EN 60228 standard for sections greater than 0,5 mm².

As you can see, there is no exact correspondence between the normalized sections of the two standards. This means that there are only approximate matches and that each approximation is either over or under. For example, the European standard section of 1,5 mm² can be approximated up or down by the American harmonized sections AWG 15 and AWG 16.

BM terminal lugs have been designed to be used with both native European and American conductors. For this reason, the normalized section of the conductor is specified for each terminal according to both standards. From terminal selection point of view, following cases may arise:

- 1) Terminal selection for a European standard cable
- 2) Terminal selection for an American standard cable

To select the terminal, look at conductor section and look for this value in the "mm²" column for the European standard cable and in the "AWG / MCM" column for the American standard cable.

When you need to replace a European standard cable with an American standard cable or vice versa, you must first find the corresponding cable section based on the design specifications and then select the terminal based on that section.

CONDUCTOR RESISTENCE VALUES

Normalized section of the conductor			Exact conversion	Resistance
mm ²	AWG	MCM	mm ²	W/km
-	30	-	0,0507	347
-	29	-	0,0647	271
-	28	-	0,0804	218
-	27	-	0,102	172
-	26	-	0,128	138
-	25	-	0,162	108
-	24	-	0,205	85,9
-	23	-	0,259	67,9
-	22	-	0,324	54,3
-	21	-	0,412	42,7
0,5	-	-	0,500	39,0
-	20	-	0,519	33,9
-	19	-	0,653	26,9
0,75	-	-	0,750	26,0
-	18	-	0,823	21,4
1,0	-	-	1,00	19,5
-	17	-	1,04	16,9
-	16	-	1,31	13,5
1,5	-	-	1,50	13,3
-	15	-	1,65	10,6
-	14	-	2,08	8,45
2,5	-	-	2,50	7,98
-	13	-	2,63	6,69
-	12	-	3,31	5,31
4	-	-	4,00	4,95
-	11	-	4,17	4,22
-	10	-	5,26	3,343
6	-	-	6,00	3,300
-	9	-	6,63	2,652
-	8	-	8,37	2,102
10	-	-	10,0	1,910
-	7	-	10,6	1,667
-	6	-	13,3	1,323
16	-	-	16,0	1,210
-	5	-	16,8	1,049
-	4	-	21,2	0,8315
25	-	-	25,0	0,7800
-	3	-	26,7	0,6595
-	2	-	33,6	0,5231
35	-	-	35,0	0,5540
-	1	-	42,4	0,4146
50	-	-	50,0	0,3860
-	1/0 (0)	-	53,5	0,3287
-	2/0 (00)	-	67,4	0,2608
70	-	-	70,0	0,2720
-	3/0 (000)	-	85,0	0,2069
95	-	-	95,0	0,2060
-	4/0 (0000)	-	107,2	0,1640
120	-	-	120	0,1610
-	-	250	127	ns
150	-	-	150	0,1290
-	-	300	152	ns
-	-	350	177	ns
185	-	-	185	0,1060
-	-	400	203	ns
240	-	-	240	0,0801
-	-	500	253	ns
300	-	-	300	0,0641
-	-	600	304	ns
-	-	700	355	ns
400	-	-	400	0,0486
-	-	800	405	ns
-	-	900	456	ns
500	-	-	500	0,0384
-	-	1000	507	ns
630	-	-	630	0,0287
-	-	1250	633	ns
-	-	1500	760	ns
-	-	1750	887	ns
-	-	2000	1010	ns

The table shows the resistance values for the normalized sections of the European standard expressed in square millimeters (mm²) and normalized sections of the American standard expressed in AWG (American Wire Gauge) and MCM (short for thousands of circular mils or kcmil).

NOTES

















The resistances of the European normalized sections are taken from the EN 60228 standard starting from 0.5 mm², while the resistances of the American normalized sections are taken from the UL 1581 standard (Reference Standard for Electrical Wires, Cables, and Flexible Cords). In both cases, the resistances are for bare conductors at 20° C. The acronym 'ns' stands for 'not specified'.

The European and American standard have normalized sections, however there is no exact correspondence between the normalized sections of the two standards. This means that replacing a native mm² cable with a native AWG/MCM cable always involves oversizing or undersizing and vice versa. The replacement is therefore not an automatic operation but must be performed from time to time according to the application and project specifications.

The conductor resistance value is a fundamental parameter for evaluating the different impact of the Joule effect as the conductor section changes.

DEGREE OF PROTECTION PROVIDED BY CASING (IP CODE)

IP degree ranks and evaluates the degree of protection provided by casings against the intrusion of solid particles (such as objects and dust) and the access of fluids, according to EN 60529. The IP degree is given by the combination of the first and the second digit of the following tables.

1° DIGIT GRADE OF PROTECTION AGAINST SOLID OBJECTS			2° DIGIT DEGREE OF PROTECTION AGAINST WATER		
MEANING FOR THE PROTECTION OF EQUIPMENT	DEGREE	MEANING FOR THE PROTECTION OF PEOPLE	DEGREE	MEANING FOR THE PROTECTION OF EQUIPMENT	
No protection	 0		 0	No protection	
Protection against solid objects with a diameter up to 50 mm	 1	Protection against contact with large areas of the body (e.g. back of the hand)	 1	Protection against vertically falling drops of water (e.g. condensation) for 10 minutes	
Protection against solid objects with a diameter up to 12.5 mm	 2	Protection against contact with fingers	 2	Protection against direct sprays of water up to 15 degrees from the vertical for 2.5 minutes for each position	
Protection against solid objects with a diameter up to 2.5 mm	 3	Protection against tools and wires with a diameter over 2.5 mm	 3	Protection against direct sprays of water up to 60 degrees from the vertical for 10 minutes	
Protection against solid objects with a diameter up to 1 mm	 4	Protection against tools and wires with a diameter over 1 mm	 4	Protection against water sprayed from all directions for 10 minutes	
Protection against dust: limited ingress (i.e. no harmful deposit)	 5	Dust protection	 5	Protected against low-pressure jets of water from all directions for at least 3 minutes	
Total protection against dust	 6	Dust protection	 6	Protected against strong jets of water from all directions for at least 3 minutes	
			 7	Protected against the effect of immersion between 15 cm and 1 m for 30 minutes	
			 8	Protected against the conditions given by the manufacturer, which must be stricter than for digit 7	

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186470	272	1974	368	2529	185	2716	183	3699	177	4048L	175	4720N	167
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186724	272	1976	369	2532	182	2725	183	3701	177	4048N	172	4721N	173
186750	272	200	286	2532L	182	2732	183	3702	177	4206	189	4725	167
186770	272	200A	287	2536	185	2740	183	3703	177	4213	189	4725N	167
186815	272	200CC	288	2536L	185	2750	183	3704	177	4220	189	4729	173
186824	272	200F	288	2540	182	2763	183	3705	177	4228	189	4729N	173
186850	272	200PA	286	2540L	182	2796	187	37A055	263	4238	189	4732	167
186870	272	200PF	286	2542	185	2797	187	37A055A1	263	4307	172	4732N	167
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1881	385	2303	109	2596	186	2805	187	39B5AH	266	4342	172	4748N	173
1882	385	2304	109	2597	186	2812	183	39B5AH	279	4348	172	4750	167
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1935	370	2467	188	26722	295	323	285	4016	172	4625	171	4832N	170
1936	370	2468	188	267E	295	324	285	4016L	175	4625N	171	4836	178
1938	370	2469	188	2691	181	3451	181	4016LN	175	4632	171	4836N	178
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1959	368	2511L	185	269123	227	3464	181	4021S	176	4707	173	4850N	170
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1961	369	2512L	182	26914	226	3596	176	4029	172	4709	173	4863N	170
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4912S	169	5144	108	537	234	61135	219	70607	72	73467	58	80214	23
4912SN	169	5145	108	5371	239	61142	219	70608	72	735	293	80219	20
4913	174	5146	108	5375	251	61157	219	70609	72	73500	66	80220	23
49131	174	5147	108	537D	289	61166	219	71537	58	73555	58	80225	20
4913G	180	5148	108	53816	249	61215	219	716	293	73561	58	80226	23
4916	174	5149	108	5382	250	61220	219	71637	58	73567	58	80230	34
49161	174	5150	108	539	234	61225	219	71643	58	73630	66	80231	20
4916G	180	5151	108	5391	239	61230	219	71737	58	73661	58	80232	23
4917	166	5152	108	539D	289	6311D	253	71743	58	73761	58	80237	20
4917G	171	5153	108	53K000	247	6313D	253	71837	58	75010	68	80240	33
4917L	168	5160	107	53KPBF	246	6314D	253	71843	58	75016	68	80243	20
4917LN	168	5161	107	53L02C	244	6315D	253	71849	58	75017	68	80250	24
4917N	166	5162	107	53M02C	244	6316D	253	71943	58	75025	68	80260	26
4917S	169	5163	107	53M02E	244	6317D	253	71949	58	75035	68	80280	32
4917SN	169	5164	107	53M02F	244	631D	253	71955	58	75050	68	80291	30
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4920G	171	5166	107	53M03C	244	6322D	253	72025	67	75095	68	80293	30
4920L	168	5167	107	53M2C2	244	634D	253	72035	67	76016	69	80295	31
4920LN	168	5211	105	53M2E1	244	635D	253	72050	67	76017	69	803	117
4920N	166	5212	105	53M5D1	244	636D	253	72070	67	76025	69	80314	23
4920S	169	5213	105	53M5D2	244	6534	252	72095	67	76026	69	80319	20
4920SN	169	5214	105	53M5N1	244	65341	253	72120	67	76035	69	80320	23
4921	174	5215	105	53M5N2	244	65342	253	72150	67	76036	69	80325	20
49211	174	5216	105	53MMC4	244	70000	72	72200	67	76050	69	80326	23
4921G	180	5217	105	53P000	244	70001	72	72240	67	76051	69	80331	20
4925	166	5218	105	53P02E	245	70002	72	72300	67	76070	69	80332	23
4925G	171	5219	105	53P02H	245	70003	72	72400	67	76071	69	80337	20
4925L	168	522	231	53P2E1	245	70004	72	72500	67	76095	69	80338	23
4925LN	168	5220	105	53P5D1	246	70005	72	72630	67	76096	69	80343	20
4925N	166	5221	105	53P5YA	246	70006	72	73025	66	76097	69	80344	23
4925S	169	5222	105	540	231	70007	72	73035	66	76120	69	80350	24
4925SN	169	5223	105	541	232	70008	72	73050	66	76121	69	80360	26
4929	174	523	256	542	232	70009	72	73070	66	76150	69	80380	32
49291	174	524	254	543	236	70010	72	73095	66	76151	69	80390	30
4929G	180	525	254	5431	241	70202	70	73120	66	76152	69	80392	30
4932	166	5251	104	543D	289	70203	70	73125	66	76185	69	80395	30
4932G	171	5252	104	544	355	70204	70	73143	58	76186	69	80401	90
4932L	168	5253	104	549	248	70205	70	73149	58	76187	69	80402	93
4932LN	168	526	255	568	273	70206	70	73150	66	76240	69	80403	89
4932N	166	5261	104	5681	273	70207	70	73155	58	76241	69	80404	92
4936	174	5262	104	570	274	70208	70	73161	58	76242	69	80405	91
49361	174	5263	104	571	275	70209	70	73200	66	770	293	80411	87
4936G	180	5264	104	572	275	70232	70	73201	67	79135	75	80412	88
4940	166	5265	104	575	274	70243	70	73202	67	79235	75	80415	87
4940G	171	5266	104	576	274	70253	70	73203	67	795	293	80416	88
4940L	168	527	256	582	258	70254	70	73204	67	80107	20	80425	61
4940LN	168	528	255	60015	220	70264	70	73205	67	80108	23	804251	62
4940N	166	529	255	60020	220	70265	70	73206	67	80113	20	80431	61
4942G	180	530	231	60025	220	70275	70	73207	67	80114	23	804311	62
4948G	180	5305	237	60115	220	70276	70	73208	67	80119	20	80460	26
4950	166	531	235	60120	220	70284	70	73209	67	80120	23	805	117
4950G	171	5311	235	60125	220	70285	70	73210	67	80125	20	80531	61
4950L	168	5312	235	60130	220	70286	70	73211	67	80126	23	805311	62
4950LN	168	5313	240	60135	220	70287	70	73212	67	80130	34	80537	61
4950N	166	5314	240	60142	220	70297	70	73213	67	80131	20	805371	62
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80637	61	83261	61	90360	27	92CS10	134	93FS11	151	94FS10	155	95GF10	156		
806371	62	832611	62	90501	46	92CS11	134	93FS2	151	94FS11	155	95GF11	156		
80643	61	832619	63	90502	46	92CS2	134	93FS3	151	94FS2	155	95GF2	156		
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80649	61	832671	62	90504	46	92CS4	134	93FS5	151	94FS4	155	95GF4	156		
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80737	61	833491	62	90603	46	92CS8	134	93FS9	151	94FS8	155	95GF8	156		
807371	62	83360	65	90604	46	92CS9	134	93GF1	150	94FS9	155	95GF9	156		
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807491	62	833671	62	91104	40	92FS2	149	93GF3	150	94GF2	154	963T	145		
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808371	62	83449	61	91114	40	92FS5	149	93GF6	150	94GF5	154	972	144		
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80937	61	835491	62	91501	46	92GF2	148	93HCS2	138	95/11	141	9904	217		
809371	62	83560	65	91502	46	92GF3	148	93HCS3	138	95/2	141	9905	217		
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809491	62	835671	62	91601	46	92GF7	148	93HCS7	138	95/6	141	9911	218		
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80961	61	90108	22	91603	46	92GF9	148	93HCS9	138	95/8	141	992	112		
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81050	76	90137	19	92/1	133	93/6	135	93HFS7	153	95/23	159	996	114		
81070	76	90143	19	92/10	133	93/7	135	93HFS8	153	95/24	159	9960	112		
81095	76	90150	24	92/11	133	93/8	135	93HFS9	153	95/261	118	99601	116		
81120	76	90151	24	92/2	133	93/9	135	93HGF1	152	95/262	118	9961	112		
81150	76	90160	27	92/3	133	931373	80	93HGF10	152	95/263	118	997	115		
81185	76	90207	19	92/4	133	931433	80	93HGF11	152	95/264	118	998	114		
81240	76	90208	22	92/5	133	932373	80	93HGF2	152	95CS1	142	9981	115		
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B1090	192	BL3748	195	F0022	317	F2034	339	GBS012BBL	208	GBS064SGV	211	GBS254SGV	211
B1225	192	BL3776	195	F0023	317	F2051	340	GBS012BNE	208	GBS064SNE	211	GBS254SNE	211
B1225M	192	BP1536	197	F0032	318	F2052	340	GBS012BRO	208	GBS064SRO	211	GBS254SRO	211
B1248	192	BP2048	197	F0042	319	F2053	340	GBS012BTR	208	GBS064STR	211	GBS254STR	211
B1290	192	BR1576	196	F0052	318	F2054	340	GBS016BBI	208	GBS095BBI	208	GBS318BBI	209
B1436	192	BR2076	196	F0062	318	F2081	340	GBS016BBL	208	GBS095BBL	208	GBS318BBL	209
B1436M	192	BR3076	196	F0073	317	F2082	340	GBS016BNE	208	GBS095BGV	208	GBS318BNE	209
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B1625	192	BT22025	197	F0101	328	F3116	336	GBS016MNE	210	GBS095MBL	210	GBS380BBL	209
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B2025M	192	BX3048	194	F0202	320	F7003	341	GBS024MBL	210	GBS095SNE	211	GBS380SGV	212
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B2036M	192	BX3876	194	F0211	321	F7011	342	GBS024MRO	210	GBS095STR	211	GBS380SRO	212
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B2076	192	ESB1510GR	298	F0331	323	F7032	342	GBS024STR	211	GBS102BTR	209	GBS510BRO	209
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B2936	192	ESB1510NE	298	F0342	324	F7051	343	GBS032BGV	208	GBS127BGV	208	GBS510SBL	212
B2936M	192	ESB1510RO	298	F0351	323	F7052	343	GBS032BNE	208	GBS127BNE	208	GBS510SGV	212
B2976	192	ESB1510VE	298	F0352	323	F7053	343	GBS032BRO	208	GBS127BRO	208	GBS510SNE	212
B3048	192	ESB1525BI	298	F0361	323	F7054	343	GBS032BTR	208	GBS127BTR	208	GBS510SRO	212
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B3776	192	ESB1525MA	298	F0412	325	F8003	337	GBS032SBI	211	GBS127SBI	211	GBS760BRO	209
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B9023	119	ESB2525GR	298	F1034	333	F9084	345	GBS048SBI	211	GBS190SBI	211	M092	133
B9024	119	ESB2525GV	298	F1054	333	F9085	345	GBS048SBL	211	GBS190SBL	211	M093	135
B9031	120	ESB2525MA	298	F1084	333	F9087	345	GBS048SGV	211	GBS190SGV	211	M093H	137
B9032	120	ESB2525NE	298	F1136	330	F9401	344	GBS048SRO	211	GBS190SRO	211	M094	139
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B9034	120	ESB2525VE	298	F1311	334	F9403	344	GBS048STR	211	GBS190STR	211	M096	143
B9051	121	ESC1920NE	299	F1411	335	F9404	344	GBS064BBI	208	GBS254BBI	209	M0983	146
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B9053	121	F0001	316	F2002	338	F9503	344	GBS064BGV	208	GBS254BGV	209	M098C	146
B9054	121	F0002	316	F2003	338	F9504	344	GBS064BNE	208	GBS254BNE	209	M099	147
BH1125	196	F0003	316	F2004	338	F9904	347	GBS064BRO	208	GBS254BRO	209	M9021	119
BH2048	196	F0004	316	F2011	339	GBA030SNE	212	GBS064BTR	208	GBS254BTR	209	M9022	119
BH3076	196	F0005	316	F2012	339	GBA060SNE	212	GBS064MBL	210	GBS254MBL	210	M9023	119
BL1025	195	F0011	317	F2013	339	GBA090SNE	212	GBS064MGV	210	GBS254MGV	210	M9024	119
BL1436	195	F0012	317	F2014	339	GBA120SNE	212	GBS064MNE	210	GBS254MNE	210	M9031	120
BL2025	195	F0013	317	F2031	339	GBA190SNE	212	GBS064MRO	210	GBS254MRO	210	M9032	120
BL2048	195	F0014	317	F2032	339	GBA240SNE	212	GBS064SBI	211	GBS254SBI	211	M9033	120

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M9034	120	N2548	193	Q104	283	QSCP055M4	223	SC2045	205	TP5RGG32	311	TP7TG25/20	306
M9039	122	N2690	199	Q138	283	QSCP055M5	223	SC2079	205	TP5RGG35	311	TP7TG32	306
M9051	121	N2936	193	Q143	283	QSCP060M4	223	SC3045	205	TP5RGG40	311	TP7TG40	306
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M9054	121	N3048	193	Q24	283	QSCP070M6	223	SC3779	205	TP5RGGN12	311	TP7TS20	304
M92CS	134	N3048M	193	Q30	283	QSCP085M5	223	SC5079	205	TP5RGGN14	311	TP7TS25	304
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M932	189	N3736	193	Q46	283	QSCP120M5	223	SC6845	205	TP5RGGN20	311	TP7TS40	304
M93CS	136	N3748	193	Q50	283	QSCP120M6	223	SC6879	205	TP5RGGN22	311	TP7TS50	304
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M93H1	137	N3948	193	Q68	283	QSMS015M5	224	SC8479	205	TP5RGGN28	311	TP7TT20	305
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M93H3	137	N4912	199	QB1242518	221	QSMS020M6	224	T1300	282	TP5RGGN50	311	TP7TT50	305
M93H4	137	N5348	193	QB1251518	221	QSMS025M4	224	T1400	282	TP5RGM10	309	TPZFF16/32	308
M93H5	137	N5390	193	QB1551625	221	QSMS025M5	224	T1530	282	TP5RGM12	309	TPZFF40/63	308
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M93HCS	138	N7890	193	QB2052625	221	QSMS040M4	224	T2000	282	TP5RGM40	309	TPZFS40	308
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N2036	193	NL2048	195	QSCP030M5	223	S6845	204	TP5RGG16	311	TP7TG16	306		
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N2048M	193	NL3748	195	QSCP040M4	223	S8445	204	TP5RGG22	311	TP7TG20	306		
N2076	193	NL3776	195	QSCP045M5	223	S8479	204	TP5RGG25	311	TP7TG20/16	306		
N2412	199	NV2312	203	QSCP045M6	223	SC1345	205	TP5RGG28	311	TP7TG25	306		

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