Catalog 2020/2021









ERGOM®

www.ergom.com

Dear Customers,

We would like to present you with our new product catalogue containing a few thousand of new products, especially from the assortment of cable terminals. Another new feature is smaller packaging that ensures more convenient handling.

If you have any questions or requests, our R&D professionals are ready to provide you with necessary assistance, suggest a suitable solution or even develop a customised product. We share our extensive experience and expertise during free-of-charge product usage demonstrations and by publishing generally available guidebooks.

We are driven by full customer delight. We supervise quality at all stages - starting from designing, through validation, manufacturing, quality control, to servicing. We employ state-of-the-art, constantly evolving technologies to offer very high quality and competitive prices. It is confirmed by extensive and growing volume of exports to demanding markets of Europe, Middle East and numerous other countries.

We are open to direct cooperation and manufacturing products for individual orders.

We look forward to cooperating with you!

ERGOM Z.A.E. Management

Janusz Majchrowicz Jerzy Pietrasik



The company is based in Łódź.



The manufacturing plant is based in Topola Królewska.

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Al tubular terminals	239
Al-Cu tubular terminals	265

Switchgears and enclosures

Busbars and mounting elements	413
Insulators and holders for rails and cables	421
Busbar connectors	427

Assortment overview



17 Cable ties



35 Fastening and protective elements



53 Cable glands



65 Protective pipes and fittings



83 Markers



97 Electro-insulating materials



113 Electro-insulating materials



121 Cable terminals - uninsulated



135 Cable terminals - insulated



155 Connectors - insulated



177 Cu standard tubular terminals



211 Cu DIN tubular terminals



231 Cu tubular terminals for compressed cables



235 Low-cost Cu tubular terminals



239 Al tubular terminals



265 Al-Cu tubular terminals



281 Hand cutters



289 Stripping tools



301 Crimping tools



361 Tools for cable ties



367 Hydraulic tools



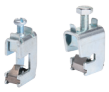
397 Dies



413 Busbars and mounting



421 Insulators and holders for rails and cables



427 Busbar connectors

Product search methods

The catalogue comprises of four sections:

- Wiring accessories
- Cable terminals
- Tools for electricians
- Switchgears and enclosures

Each section is colour-coded, which facilitates its search on the catalogue spine.

A table of contents is provided at the beginning of the catalogue. 1

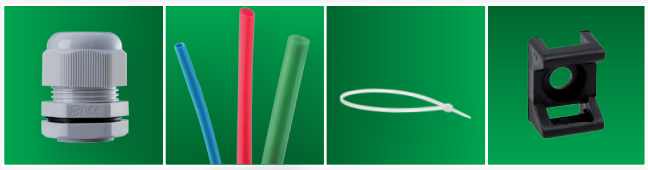
Each section includes chapters and sub-chapters which are typically preceded by a table of contents.

The table of contents includes locations of individual products and technical guidebooks.

Guidebooks include information concerning operating conditions, chemical properties of product materials, etc.

An index of product types is provided at the end of the catalogue. 2

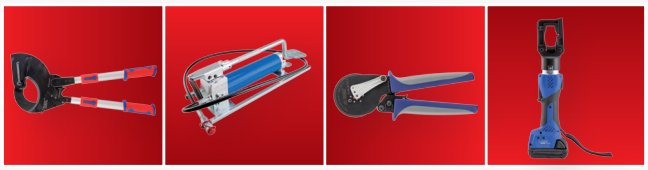
Wiring accessories



Cable terminals



Tools for electricians



Switchgears and enclosures



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Catalogue sheet layout

1 FEATURES AND BENEFITS
Information differentiating products.

2 LOGISTIC DATA
Product packaging, quantities and weight.

3 MECHANICAL DATA
Material, colour, operating temperatures, etc.

4 CERTIFICATES AND STANDARDS
Standards, certificates, flammability classes, etc.

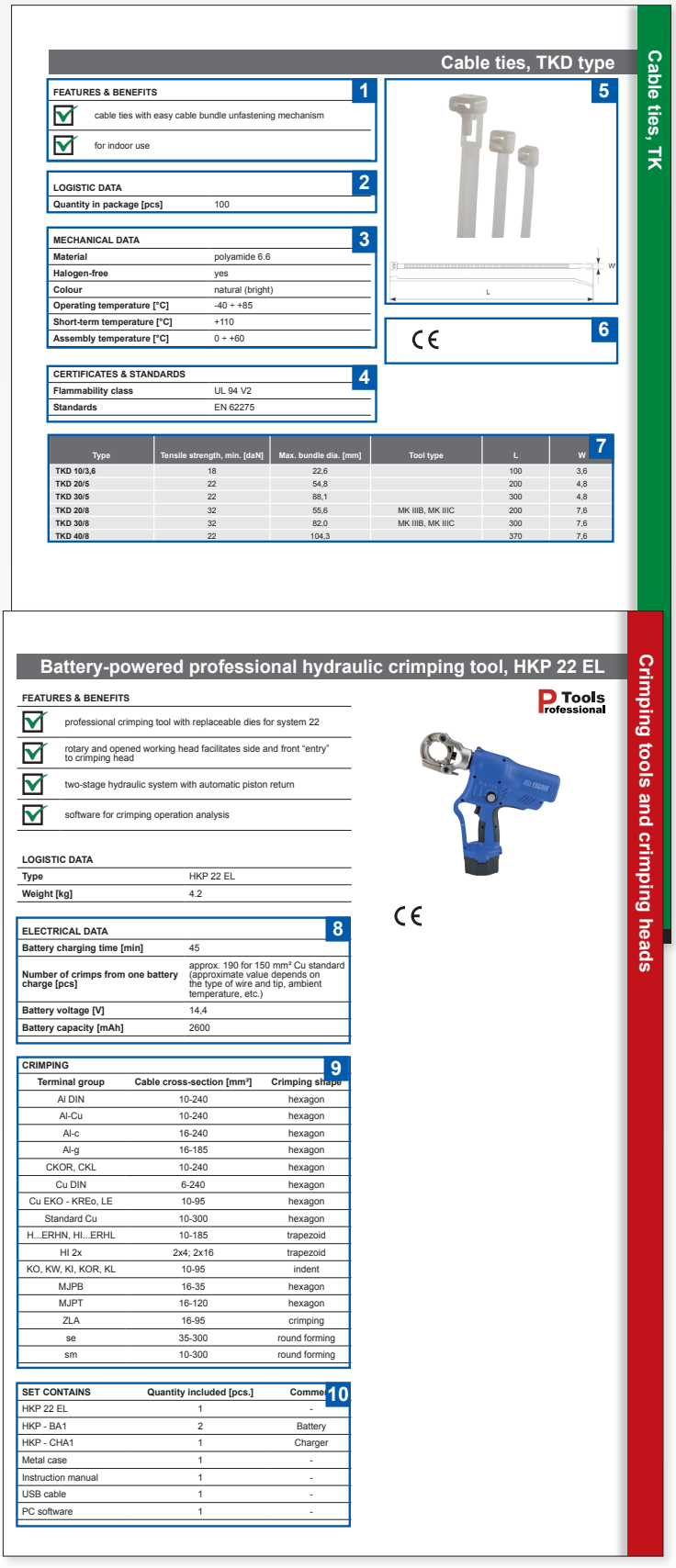
5 PHOTO AND TECHNICAL DRAWING
Product photos and technical drawings; dimensions are provided in the **DIMENSIONS** section or in a table; all dimensions are specified in millimetres.

6 CERTIFICATE ICONS
Products may be accompanied with certificate icons and certifying institutions' logos. For up-to-date information, visit www.ergom.com.

7 TABLE
The majority of products are included in the catalogue in the form of type series, i.e. sets of products of similar properties differing in certain features (e.g. sizes). In such cases, we provide a collective table for all products included in a given type series including vital features that differentiate individual products, and their common features are described in given sections over the table.

8 ELECTRIC DATA
Product electric parameter data.

9 TECHNICAL TABLE OF TOOLS
Information on methods of cutting off, stripping, crimping, etc.



Cable ties, TKD type

Cable ties, TK

FEATURES & BENEFITS (1)
- cable ties with easy cable bundle unfastening mechanism
- for indoor use

LOGISTIC DATA (2)

Quantity in package [pcs]	100

MECHANICAL DATA (3)

Material	polyamide 6.6
Halogen-free	yes
Colour	natural (bright)
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60

CERTIFICATES & STANDARDS (4)

Flammability class	UL 94 V2
Standards	EN 62275

(5)

(6) CE

(7)

Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Tool type	L	W
TKD 10/3,6	18	22,6		100	3,6
TKD 20/5	22	54,8		200	4,8
TKD 30/5	22	88,1		300	4,8
TKD 20/8	32	55,6	MK IIIB, MK IIIC	200	7,6
TKD 30/8	32	82,0	MK IIIB, MK IIIC	300	7,6
TKD 40/8	22	104,3		370	7,6

Battery-powered professional hydraulic crimping tool, HKP 22 EL

Crimping tools and crimping heads

FEATURES & BENEFITS
- professional crimping tool with replaceable dies for system 22
- rotary and opened working head facilitates side and front "entry" to crimping head
- two-stage hydraulic system with automatic piston return
- software for crimping operation analysis

LOGISTIC DATA

Type	HKP 22 EL
Weight [kg]	4.2

(8) ELECTRICAL DATA

Battery charging time [min]	45
Number of crimps from one battery charge [pcs]	approx. 190 for 150 mm² Cu standard (approximate value depends on the type of wire and tip, ambient temperature, etc.)
Battery voltage [V]	14,4
Battery capacity [mAh]	2600

(9) CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-240	hexagon
Al-Cu	10-240	hexagon
Al-c	16-240	hexagon
Al-g	16-185	hexagon
CKOR, CKL	10-240	hexagon
Cu DIN	6-240	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	10-300	hexagon
H...ERHN, HI...ERHL	10-185	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-95	indent
MJPB	16-35	hexagon
MJPT	16-120	hexagon
ZLA	16-95	crimping
se	35-300	round forming
sm	10-300	round forming

(10)

SET CONTAINS	Quantity included [pcs.]	Comme
HKP 22 EL	1	-
HKP - BA1	2	Battery
HKP - CHA1	1	Charger
Metal case	1	-
Instruction manual	1	-
USB cable	1	-
PC software	1	-

10 SET COMPOSITION
Detailed information on product composition, in case a product contains more than 1 element.

Z. A. E. ERGOM Sp. z o.o. is a Polish engineering-manufacturing company present on the market for over 30 years. It was established in 1989 by two engineers to develop into a market leader and one of the best Polish brands on the market of electro-technical accessories.

1989	The company is established.
1990	The plastic processing line is commissioned.
1991	The marker production line is commissioned.
1992	The assortment is complemented with cable terminals and wireman tools.
1996	Independent export activity is started - Taiwan, Lithuania.
1997	The production line for Cu band cable terminals is commissioned.
2000	D&B ranks Ergom at 78 place in the ranking of best technology sector companies in Central Europe.
2001	The company obtains the ISO 9001 certificate.
2002	The company's headquarters are relocated from 3 different sites to Nowe Sady Street in Łódź. The company has 6,5 thousand square metres of space at its disposal.
2003	Transformation into a limited liability company, capital PLN 10 million.
2005-2007	• Acquisition of the Aparel company and merger with ERGOM Z.A.E. - as a result, the company has over 14 thousand square metres of production, storage and office space at its disposal. • Development of export activities - the company sells products to over 40 countries.
2007	Ergom becomes a qualified supplier for Saudi Arabian power engineering industry. As a result, it starts export activities in the entire Middle East region.
2000-2008	Automation for production lines for terminals made of Cu and Al conduits.
2008	• Commencement of switchgear boxes and enclosures manufacturing. • Computerisation of the company - implementation of EDI and ERP Microsoft BS AX.
2012	Implementation of the warehouse management system (WMS).
2014	Galvanising plant modernisation.
2016	The company exports its products to over 50 countries, on 4 continents.
2010-2017	Quantitative increase in terminals manufactured; implementation of other automated production systems.
2017	Commissioning of first robot for production of terminals.
2018	Implementation of a new ERP Microsoft BS AX 2012 R3 system.

Industries we supply

Power engineering



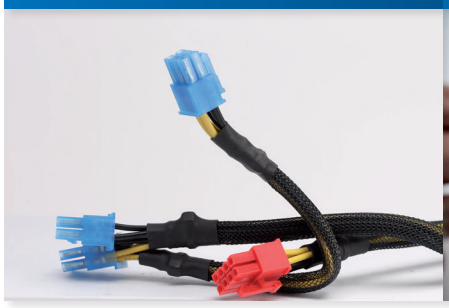
Railway



Automotive



Cable bundles



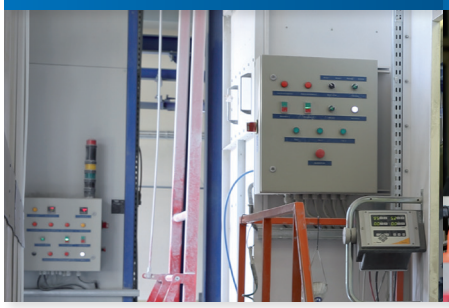
Pre-fabricators



Ship building



Machine manufacturing



Maintenance



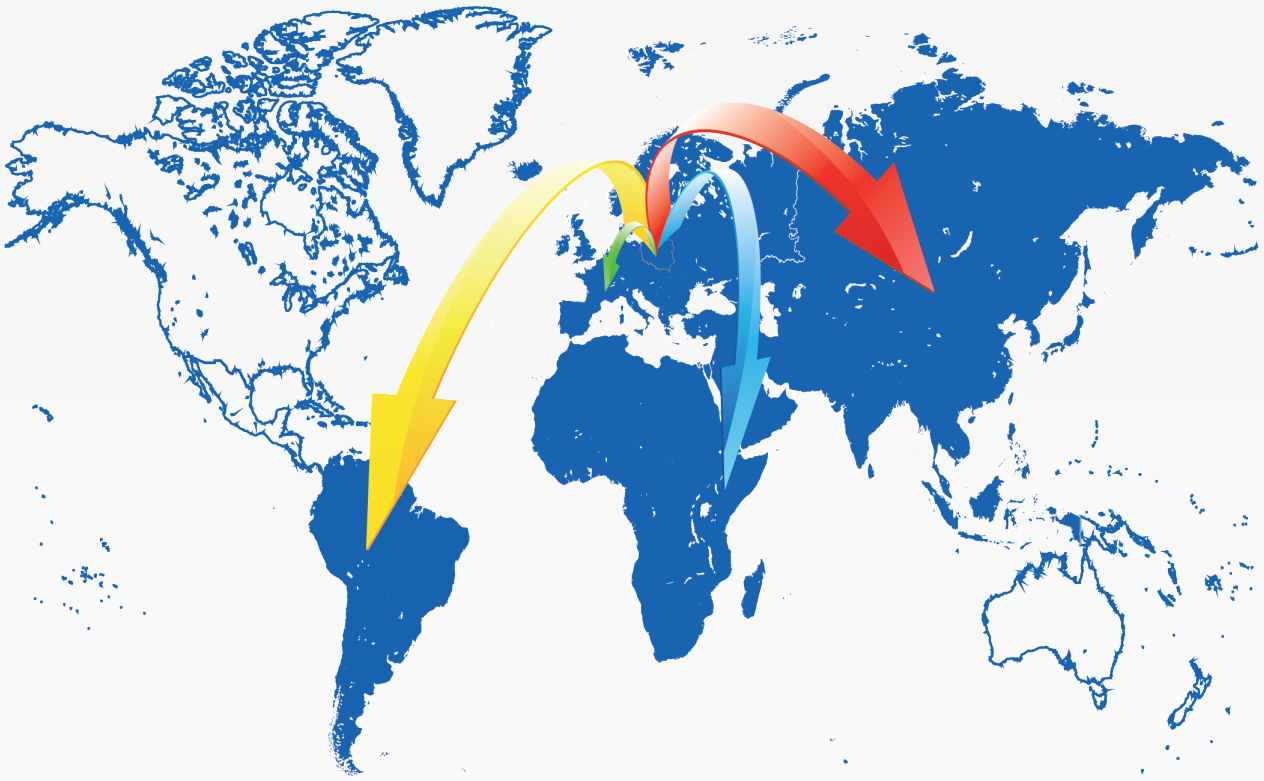
Electronics industry



Distributors



+



4 continents
56 countries
14 000 products

Since 1996 our company has been developing dynamically, pursuing business partners in Poland and abroad.

Cooperation with our export partners has enhanced our quality, which has also resulted in enhancing our competitive edge in Poland.

Mission

Our mission is **to keep our clients and shareholders satisfied** and provide them with better values and competitive edge by:

- **innovations, new products / solutions,** increase in performance and export, being the sources of our company's development;
- passionate work, consistence and continuous development;
- care for the environment and society.

Vision

We will develop and improve to cooperate with our customers with the view to creating **a leading European company in our field of operation.**

Our uniqueness will result from exceptional **customer service and comprehensive assortment.**

Values

Company driven by sustainable development
Our activity aims at achievement of defined goals to ensure continuous development. We ensure sustainability reflecting the interests of our clients, personnel, suppliers, shareholders, local communities and general public.

Market leader
Being an engineering company, we modify products, technologies, processes and markets to pave new ways for our business.

Our leadership rests on two pillars:

- offering best comprehensive solutions employing entrepreneurial and innovative characteristics of our clients and our company;

- ensuring best possible customer service, propagating professionalism and sharing our engineering expertise and experience, acting in a conscientious and customer-friendly manner.

Responsibility
We always act in line with and in interest of the society. Our products and services support people, ensuring safe operation of equipment incorporating them. We ensure they are manufactured with economical use of natural resources, guaranteeing minimum environmental pollution levels.

Honesty and conscientiousness
We play fair in relation to our clients, suppliers, employees, shareholders and other stakeholders. We treat such behaviour as a basis for the success of the team encompassing our company and all interested parties.

Respect for cultural diversity
Being aware of our Polish and European roots, we base cooperation with clients from all continents on mutual respect for cultural diversity, treating it as a condition for our mutual success.

Strategy

Our strategy is based on **the Pareto principle**, i.e. we provide accessories for construction of switchgear and electric systems whose value amounts to only **20% of investment expenditure, but takes as much as 80% of time to complete them.** It has resulted in one of **the broadest assortments** of electro-technical products on the market, most of which are available **for immediate delivery.**

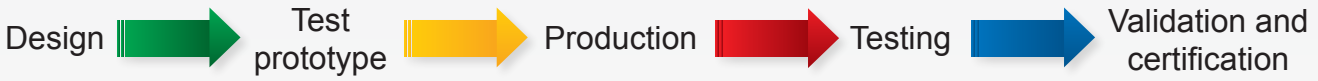
1990	As the first Polish company, we start manufacturing spiral hoses and innovative self-adhesive cable fastening elements.
1991	As the first Polish company, we start manufacturing self-adhesive TS markers.
1992	First patent application.
1993	We have Poland's broadest and most comprehensive assortment of accessories and tools. We develop cooperation with our distributors.
1997	Automation of ring terminal production line.
2000	Commencement of automation of Cu and Al cable terminal production line.
2005	Development of competencies - creation of the Development Department.
2008	Implementation of ERP Microsoft BS AX.
2009	Assortment extension with switchgear enclosures and energy distribution solutions.
2013	Commissioning of the Amirada product information base.
2014	Implementation of the soft annealing technology for Cu terminals.
2015	We are the first Polish company to start manufacturing terminals for compressed cables.
2016	• Commissioning of the first in-house laboratory and commencement of comprehensive control of our products for compliance with applicable standards and clients' needs. • Implementation of the PTools professional tools product line.
2017	Patent application for thin-walled Cu-Al terminals (for the first time in numerous countries); this is the 9th Ergom's patent application.
2018	• As one of the few European companies, we manufacture thin-walled sleeve terminals using robots. • Implementation of the new ERP Microsoft BS AX 2012 R3 system.

P Tools Professional

In 2016, taking into account increasing requirements of our clients from the cable bundles and railway industries, we marketed the PTools professional tool product line.

This product line ensures:
- better performance;
- better convenience;
- possibility of periodical validation, in line with clients' needs.

We are an **engineering company**. The engineering personnel is approx. 16% of all our employees. Our activity is based on a single, unchangeable process:



Thus we are able to provide clients not only with individual products created and tailored to their needs, but also **ready-made solutions.**

Design

- Over 20 years of experience in designing and manufacturing electro-technical products,
- Independently managed process - from designing to marketing,
- 17 engineers involved in R&D, including:
  - Designers knowing how to design a product,
  - Process engineers designing and implementing technologies,
- Independent designing and construction of tools for electro-technical product manufacturing,
- Product examinations and tests in an on-site laboratory,
- Validation on clients' sites,

Production

- tubular terminals,
- terminals in strips,
- cutting, crimping and punching tools,
- cable markers,
- corrugated conduits and profiles on extruders,
- plastic elements, e.g. for cable bundle fastening,
- steel structures for distribution cabinets (contour band saw cutting, bending, welding, polishing welds, powder coating),

Testing

- We have an on-site laboratory cooperating with the Institute of Power Engineering,
- We perform tests for cable terminals, cable glands and cable ties in line with requirements of applicable standards,
- Our R&D professionals offer advice on tool selection and use,
- We control quality of tools and issue recommendations for further utilisation of crimping tools,
- We provide services related to tailoring tools and dies to clients' requirements, including their design and fabrication,

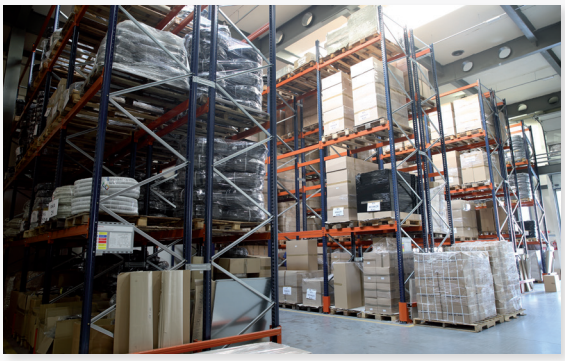
We ensure best possible customer **service** by:

- **providing broad - range technical advisory services** - from assistance in complete solution selection to training personnel during meetings, fairs and presentations;
- **guaranteeing high product availability** - inventoried product availability level reaches 95%;
- **providing additional services** - on clients' request, we validate tool crimping quality and submit all necessary reports.



We ensure best possible after-sales services, including:

- **servicing our tools;**
- **supporting distributors.**



Testing in good hands:

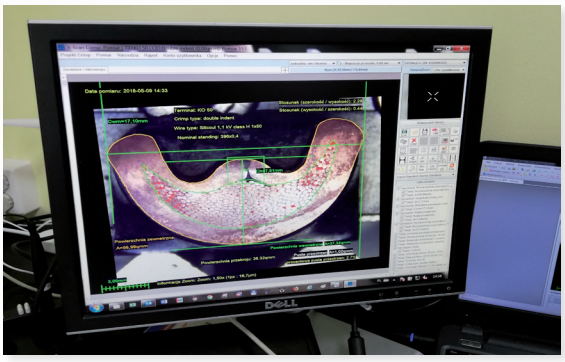
The ERGOM Z.A.E. on-site laboratory performs tests of copper and aluminium terminals and connectors for compliance with EN 61230-1.

The laboratory is recognised by the Institute of Power Engineering in Warsaw to perform cyclical tests for heating, resistance measurements and mechanical examinations.



The laboratory performs:

- cyclical tests for heating Cu and Al terminals and connectors, up to 300 mm²;
- measurements of connection resistance for Cu and Al terminals and connectors, up to 300 mm²;
- tests for mechanical tensile strength of crimped terminals and connectors, up to 300 mm²;
- recording of the temperature distribution field to define overtemperature locations;
- electric strength tests for insulation;
- electric strength tests for gloves, rubber boots and insulating mats;
- tests for cable ties and glands;
- crimping tool validation.

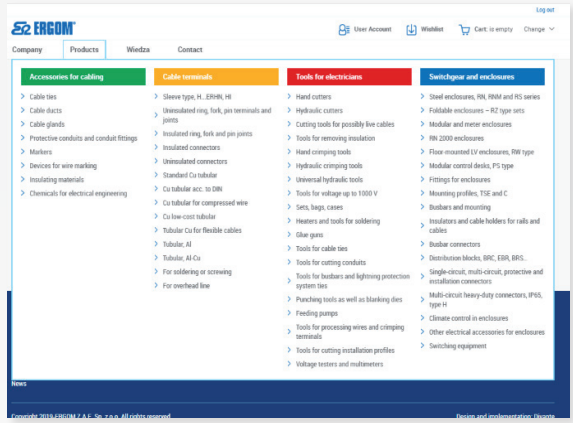


B2B platform

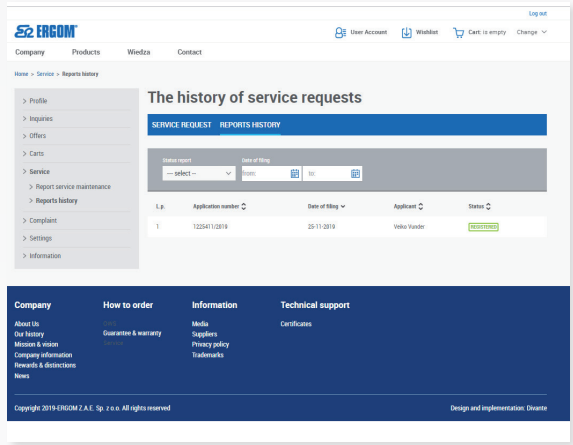
The Ergom B2B platform is a combination of a cutting-edge website, multimedia on-line catalogue and B2B sales platform.

Thanks to the fact that we are aware of our partners' needs, the B2B platform provides:

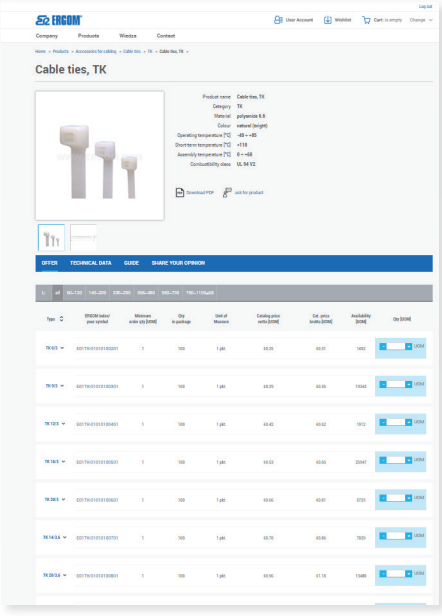
- comprehensive and up-to-date product assortment;
- detailed technical and logistic product data;
- B2B zone and Installer's Club site;
- professional articles and manuals concerning the electro-technical and electric industry;
- possibility to personalise user's account and commercial conditions;
- possibility to submit enquiries and transform related responses into orders;
- order placement, monitoring their progress, access to order history and completed orders;
- functionality enabling visitors to simultaneously create and save numerous shopping carts;
- possibility to develop offers for customers, on the basis of the Ergom's assortment;
- history of contacts with Ergom;



Product catalogue



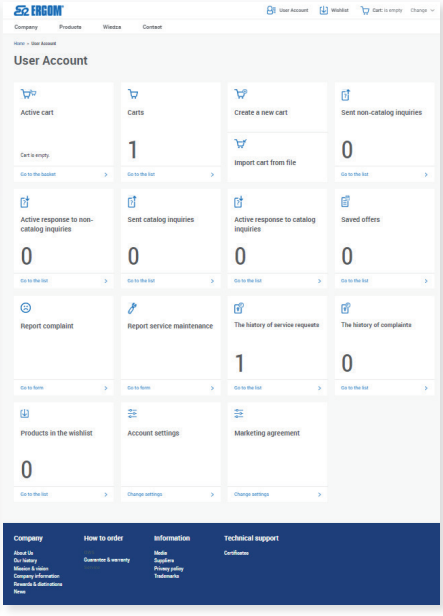
History of notifications



Type series view



Technical specifications



Customer's account

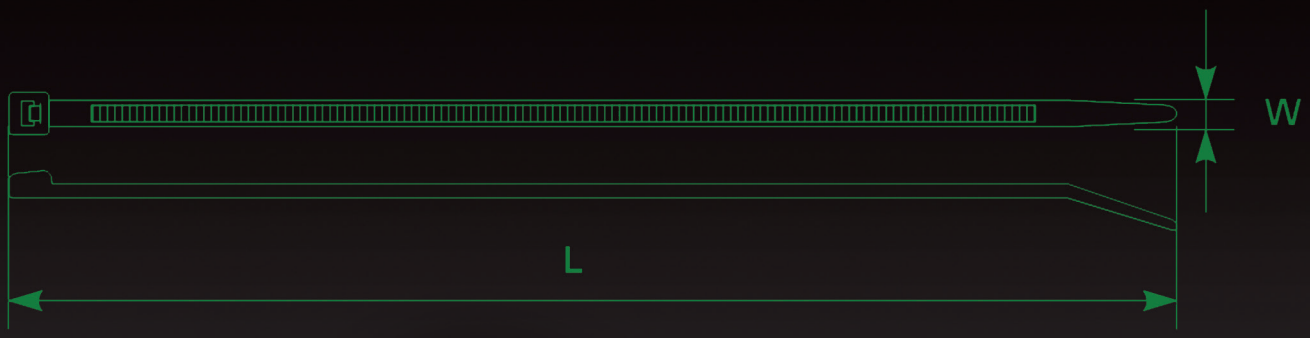
ERGOM®



Wiring accessories

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Cable ties

Cable ties, TK

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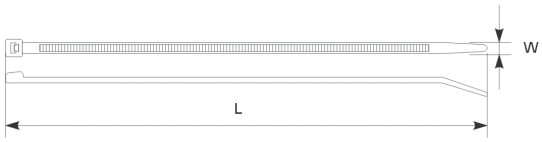
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Cable ties, TK type

FEATURES & BENEFITS

- popular cable ties for wide range of cable bundle diameters
- for indoor use





MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	natural (bright)
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

NOTE!

UL certificate - for up-to-date information, visit www.ergom.com

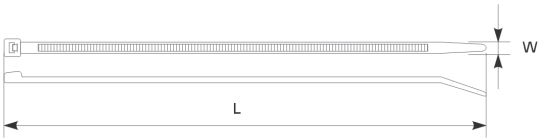
Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Tool type	L	W	Quantity in package [pcs]
TK 6/3	8	14,0	MK III A, MK III PR	80	2,5	100
TK 9/3	8	20,5	MK III A, MK III PR	100	2,5	100
TK 12/3	8	27,0	MK III A, MK III PR	120	2,5	100
TK 16/3	8	39,8	MK III A, MK III PR	160	2,5	100
TK 20/3	8	52,5	MK III A, MK III PR	200	2,5	100
TK 14/3,6	18	33,0	MK III A, MK III B, MK III C, MK III PR	140	3,6	100
TK 20/3,6	18	46,0	MK III A, MK III B, MK III C, MK III PR	200	3,6	100
TK 25/3,6	18	68,0	MK III A, MK III B, MK III C, MK III PR	250	3,6	100
TK 30/3,6	18	84,0	MK III A, MK III B, MK III C, MK III PR	300	3,6	100
TK 40/3,6	18	106,0	MK III A, MK III B, MK III C, MK III PR	370	3,6	100
TK 12/5	22	23,8	MK III A, MK III B, MK III C, MK III PR	120	4,6	100
TK 16/5	22	36,6	MK III A, MK III B, MK III C, MK III PR	160	4,6	100
TK 18/5	22	43,0	MK III A, MK III B, MK III C, MK III PR	180	4,6	100
TK 20/5	22	49,5	MK III A, MK III B, MK III C, MK III PR	200	4,8	100
TK 25/5	22	65,0	MK III A, MK III B, MK III C, MK III PR	250	4,8	100
TK 30/5	22	81,0	MK III A, MK III B, MK III C, MK III PR	300	4,8	100
TK 40/5	22	103,5	MK III A, MK III B, MK III C, MK III PR	370	4,8	100
TK 43/5	22	122,5	MK III A, MK III B, MK III C, MK III PR	430	4,8	100
TK 20/8	54	50,9	MK III B, MK III C	200	7,6	100
TK 30/8	54	82,8	MK III B, MK III C	300	7,6	100
TK 40/8	54	103,5	MK III B, MK III C	365	7,6	100
TK 45/8	54	130,5	MK III B, MK III C	450	7,6	100
TK 50/8	54	162,5	MK III B, MK III C	550	7,6	100
TK 70/8	54	226,0	MK III B, MK III C	750	7,6	100
TK 60/9	77	181,5	MK III B, MK III C	610	8,8	100
TK 70/9	77	195,0	MK III B, MK III C	710	8,8	100
TK 80/9	77	229,5	MK III B, MK III C	760	8,8	100
TK 110/9	77	340,0	MK III B, MK III C	1168	8,8	100
TK 20/13	110	57,0	MK III C	230	12,4	50
TK 50/13	110	140,0	MK III C	480	12,6	50
TK 70/13	110	216,0	MK III C	730	12,4	50
TK 100/13	110	315,0	MK III C	1000	12,4	50

Cable ties, TK ... BK

FEATURES & BENEFITS

- cable ties for applications with recommended black colour of components
- for indoor used, with enhanced UV-resistance in relation to TK ties





MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	black
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

NOTE!

UL certificate - for up-to-date information, visit www.ergom.com

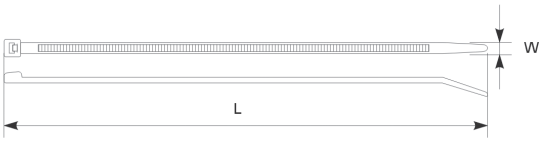
Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Tool type	L	W	Quantity in package [pcs]
TK 6/3 BK	8	14,0	MK III A, MK III PR	80	2,5	100
TK 9/3 BK	8	20,5	MK III A, MK III PR	100	2,5	100
TK 12/3 BK	8	27,0	MK III A, MK III PR	120	2,5	100
TK 16/3 BK	8	39,8	MK III A, MK III PR	160	2,5	100
TK 20/3 BK	8	52,5	MK III A, MK III PR	200	2,5	100
TK 14/3,6 BK	18	33,0	MK III A, MK III B, MK III C, MK III PR	140	3,6	100
TK 20/3,6 BK	18	46,0	MK III A, MK III B, MK III C, MK III PR	200	3,6	100
TK 25/3,6 BK	18	68,0	MK III A, MK III B, MK III C, MK III PR	250	3,6	100
TK 30/3,6 BK	18	84,0	MK III A, MK III B, MK III C, MK III PR	300	3,6	100
TK 40/3,6 BK	18	106,0	MK III A, MK III B, MK III C, MK III PR	370	3,6	100
TK 12/5 BK	22	23,8	MK III A, MK III B, MK III C, MK III PR	120	4,6	100
TK 16/5 BK	22	36,6	MK III A, MK III B, MK III C, MK III PR	160	4,6	100
TK 18/5 BK	22	43,0	MK III A, MK III B, MK III C, MK III PR	180	4,6	100
TK 20/5 BK	22	49,5	MK III A, MK III B, MK III C, MK III PR	200	4,8	100
TK 25/5 BK	22	65,0	MK III A, MK III B, MK III C, MK III PR	250	4,8	100
TK 30/5 BK	22	81,0	MK III A, MK III B, MK III C, MK III PR	300	4,8	100
TK 40/5 BK	22	103,5	MK III A, MK III B, MK III C, MK III PR	370	4,8	100
TK 43/5 BK	22	122,5	MK III A, MK III B, MK III C, MK III PR	430	4,8	100
TK 20/8 BK	54	50,9	MK III B, MK III C	200	7,6	100
TK 30/8 BK	54	82,8	MK III B, MK III C	300	7,6	100
TK 40/8 BK	54	103,5	MK III B, MK III C	365	7,6	100
TK 45/8 BK	54	130,5	MK III B, MK III C	450	7,6	100
TK 50/8 BK	54	162,5	MK III B, MK III C	550	7,6	100
TK 70/8 BK	54	226,0	MK III B, MK III C	750	7,6	100
TK 60/9 BK	77	181,5	MK III B, MK III C	610	8,8	100
TK 70/9 BK	77	195,0	MK III B, MK III C	710	8,8	100
TK 80/9 BK	77	229,5	MK III B, MK III C	760	8,8	100
TK 110/9 BK	77	340,0	MK III B, MK III C	1168	8,8	100
TK 20/13 BK	110	57,0	MK III C	230	12,4	50
TK 50/13 BK	110	136,0	MK III C	480	12,4	50
TK 70/13 BK	110	200,0	MK III C	730	12,6	50
TK 100/13 BK	110	315,0	MK III C	1000	12,4	50

Cable ties, TKUV

FEATURES & BENEFITS

- popular cable ties for wide range of cable bundle diameters
- for outdoor use; high UV-resistance





MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	black
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

NOTE!

UL certificate - for up-to-date information, visit www.ergom.com

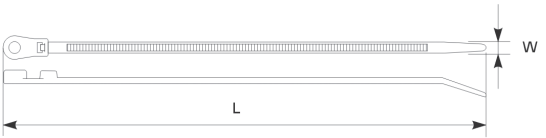
Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Tool type	L	W	Quantity in package [pcs]
TKUV 6/3	8	14,0	MK III A, MK III PR	80	2,5	100
TKUV 9/3	8	20,5	MK III A, MK III PR	100	2,5	100
TKUV 12/3	8	27,0	MK III A, MK III PR	120	2,5	100
TKUV 16/3	8	39,8	MK III A, MK III PR	160	2,5	100
TKUV 20/3	8	52,5	MK III A, MK III PR	200	2,5	100
TKUV 14/3,6	18	33,0	MK III A, MK III B, MK III C, MK III PR	140	3,6	100
TKUV 20/3,6	18	46,0	MK III A, MK III B, MK III C, MK III PR	200	3,6	100
TKUV 30/3,6	18	84,0	MK III A, MK III B, MK III C, MK III PR	300	3,6	100
TKUV 40/3,6	18	106,0	MK III A, MK III B, MK III C, MK III PR	370	3,6	100
TKUV 12/5	22	23,8	MK III A, MK III B, MK III C, MK III PR	120	4,6	100
TKUV 16/5	22	36,6	MK III A, MK III B, MK III C, MK III PR	160	4,6	100
TKUV 20/5	22	49,5	MK III A, MK III B, MK III C, MK III PR	200	4,8	100
TKUV 30/5	22	74,8	MK III A, MK III B, MK III C, MK III PR	280	4,8	100
TKUV 40/5	22	103,5	MK III A, MK III B, MK III C, MK III PR	370	4,8	100
TKUV 43/5	22	122,5	MK III A, MK III B, MK III C, MK III PR	430	4,8	100
TKUV 20/8	54	50,9	MK III B, MK III C	200	7,6	100
TKUV 30/8	54	82,8	MK III B, MK III C	300	7,6	100
TKUV 40/8	54	103,5	MK III B, MK III C	370	7,6	100
TKUV 45/8	54	130,5	MK III B, MK III C	450	7,6	100
TKUV 50/8	54	162,5	MK III B, MK III C	550	7,6	100
TKUV 70/8	54	226,0	MK III B, MK III C	750	7,6	100
TKUV 60/9	77	181,5	MK III B, MK III C	610	8,8	100
TKUV 70/9	77	195,0	MK III B, MK III C	710	8,8	100
TKUV 80/9	77	229,5	MK III B, MK III C	760	8,8	100
TKUV 110/9	77	340,0	MK III B, MK III C	1168	8,8	100
TKUV 20/13	110	57,0	MK III C	230	12,4	50
TKUV 50/13	110	136,0	MK III C	480	12,4	50
TKUV 70/13	110	216,0	MK III C	730	12,4	50
TKUV 100/13	110	315,0	MK III C	1000	12,4	50

Cable ties, TKO

FEATURES & BENEFITS

- ☑ reliable fastening of bundle to enclosure, e.g. with screw
- ☑ vibration-resistant fastening
- ☑ for indoor use





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60

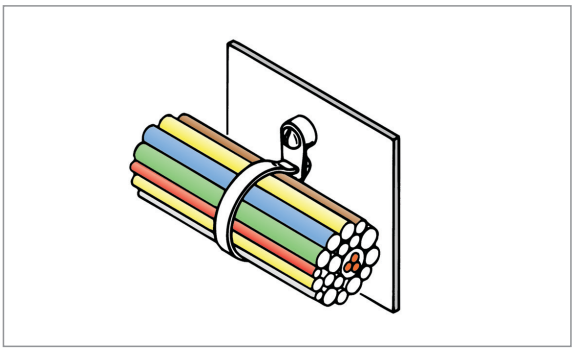
CERTIFICATES & STANDARDS

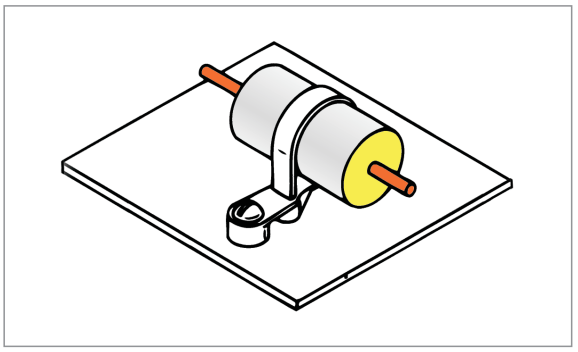
Flammability class	UL 94 V2
Standards	EN 62275

NOTE!

UL certificate - for up-to-date information, visit www.ergom.com

Type	Colour	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Fastening screw	Tool type	L	W
TKO 9/3	natural (bright)	8	19	M3	MK III A, MK III PR	110	2,5
TKO 14/3,6	natural (bright)	18	32	M4	MK III A, MK III B, MK III C, MK III PR	150	3,6
TKO 16/5	natural (bright)	22	36,8	M5		160	4,6
TKO 20/5	natural (bright)	22	50	M5	MK III A, MK III B, MK III C, MK III PR	200	4,8
TKO 30/5	natural (bright)	22	82,8	M5	MK III A, MK III B, MK III C, MK III PR	300	4,6
TKO 40/5	natural (bright)	22	102	M5	MK III A, MK III B, MK III C, MK III PR	370	4,8
TKO 20/8	natural (bright)	54	50	M6	MK III B, MK III C	200	7,8
TKO 40/8	natural (bright)	54	109,2	M6	MK III B, MK III C	400	7,6
TKO 20/5 BK	black	22	49,8	M5	MK III A, MK III B, MK III C, MK III PR	200	4,6
TKO 40/8 BK	black	54	109,2	M6	MK III B, MK III C	400	7,6

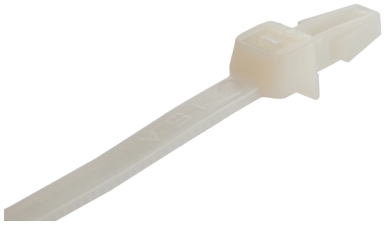


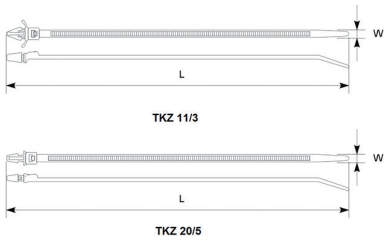


Cable ties, TKZ type

FEATURES & BENEFITS

- cable ties facilitating fastening to enclosures
- for indoor use





LOGISTIC DATA

Quantity in package [pcs]	100

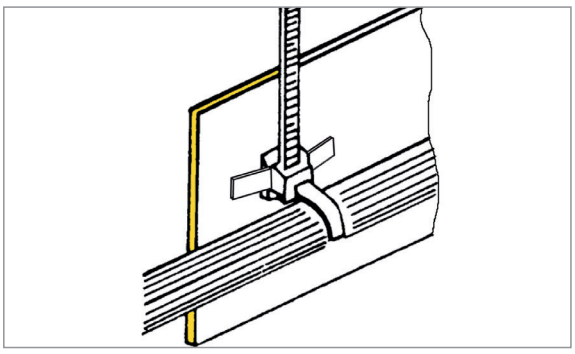
MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	natural (bright)
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60
Metal plate thickness [mm]	2,5

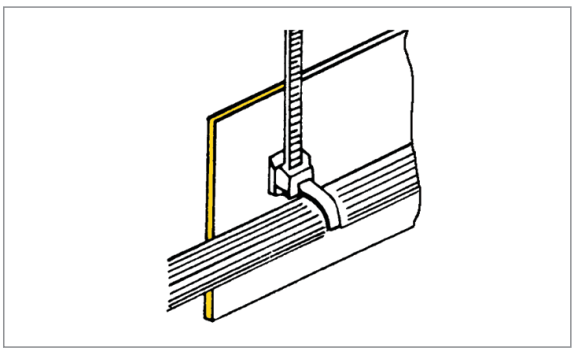
CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

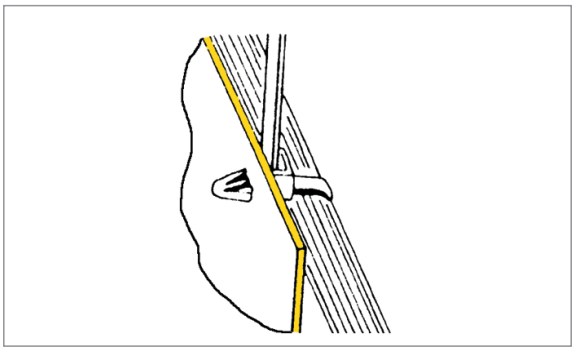
Type	Tensile strength, min. [daN]	Hole dia. [mm]	Max. bundle dia. [mm]	Tool type	L	W
TKZ 11/3	8	4,5	18	MK III A, MK III PR	110	2,5
TKZ 20/5	22	6,3	50	MK III A, MK III B, MK III C, MK III PR	200	4,6



TKZ 11/3



TKZ 20/5

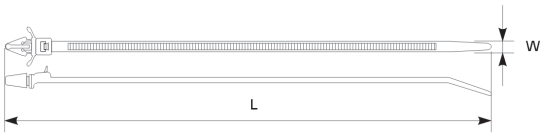


Cable ties, TKZD type

FEATURES & BENEFITS

- ☑ cable ties facilitating fastening to enclosures and easy loosening
- ☑ for indoor use





CE

LOGISTIC DATA

Type	TKZD 20/5 (100 PCS)
Quantity in package [pcs]	100

MECHANICAL DATA

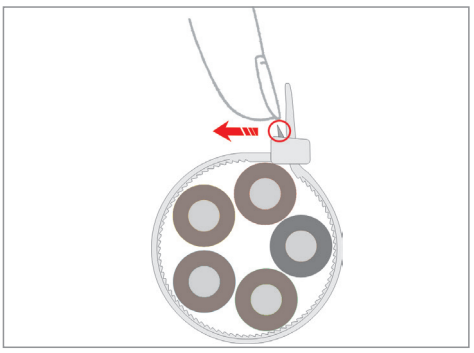
Material	polyamide 6.6
Halogen-free	yes
Colour	natural (bright)
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60
Tensile strength, min. [daN]	20
Hole dia. [mm]	6,3
Max. bundle dia. [mm]	48
Metal plate thickness [mm]	2,5

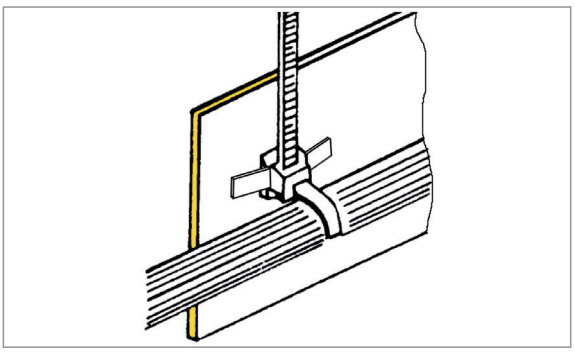
DIMENSIONS

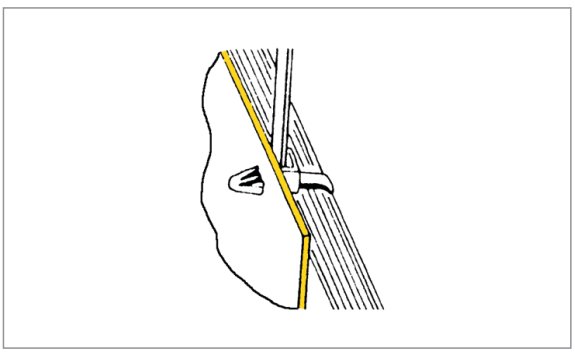
L	210
W	4,8

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275





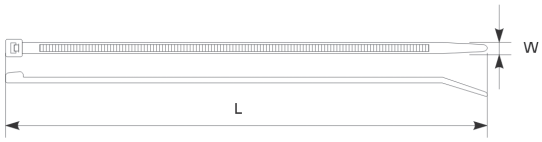


Cable ties, TKD type

FEATURES & BENEFITS

- ☑ cable ties with easy cable bundle unfastening mechanism
- ☑ for indoor use





CE

LOGISTIC DATA

Quantity in package [pcs]	100

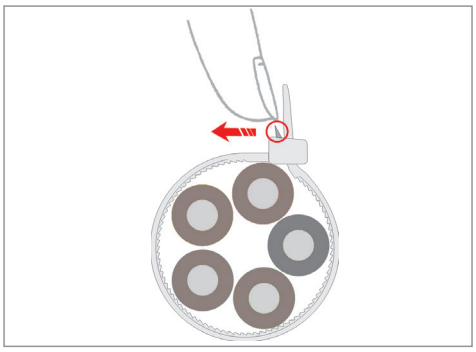
MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	natural (bright)
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Tool type	L	W
TKD 10/3,6	18	22,6		100	3,6
TKD 20/5	22	54,8		200	4,8
TKD 30/5	22	88,1		300	4,8
TKD 20/8	32	55,6	MK III B, MK III C	200	7,6
TKD 30/8	32	82,0	MK III B, MK III C	300	7,6
TKD 40/8	22	104,3		370	7,6

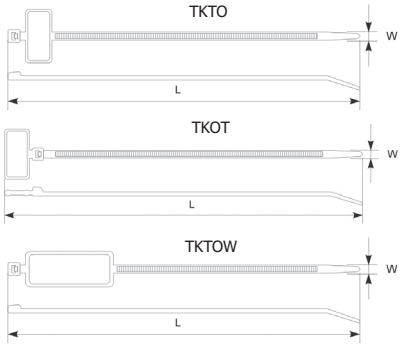


Marker ties, TKTO,TKOT and TKTOW type

FEATURES & BENEFITS

- ☑ cable ties with cable or bundle description plate
- ☑ for indoor use





CE

LOGISTIC DATA

Quantity in package [pcs]	100

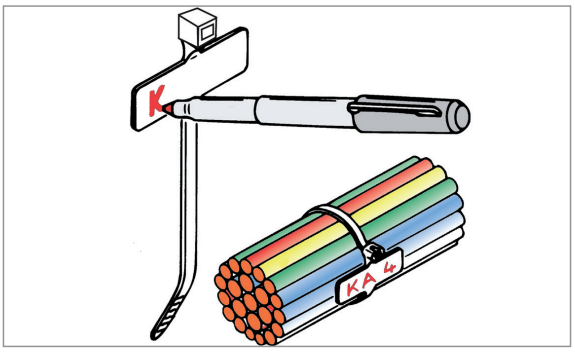
MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	natural (bright)
Operating temperature [°C]	-40 ÷ +85
Short-term temperature [°C]	+110
Assembly temperature [°C]	0 ÷ +60
Tool type	MK III A, MK III PR

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	L	W	Plate
TKTO 11/3	8	22	100	2,5	25x8
TKTO 20/3	8	50	200	2,5	25x8
TKOT 11/3	8	18	110	2,5	25x8
TKOT 20/3	8	50	210	2,5	21x9
TKTOW 20/5	22	50	190	4,6	25x12

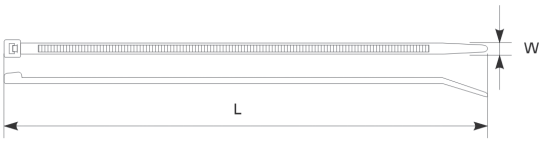


Cable ties, TKS type

FEATURES & BENEFITS

- ☑ cable ties for high temperature applications
- ☑ for indoor use





CE

LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	polyamide 6.6
Halogen-free	yes
Colour	light green
Operating temperature [°C]	-40 ÷ +105
Assembly temperature [°C]	0 ÷ +60

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2
Standards	EN 62275

NOTE!

UL certificate - for up-to-date information, visit www.ergom.com

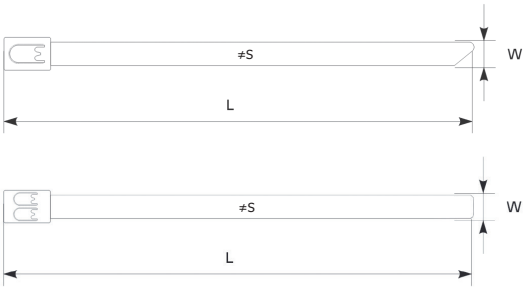
Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	Tool type	L	W
TKS 9/3	8	20	MK III A, MK III PR	98	2,5
TKS 14/3,6	18	33	MK III A, MK III B, MK III C, MK IIIP R	140	3,6
TKS 20/3,6	18	50	MK III A, MK III B, MK III C, MK III PR	200	3,6
TKS 20/5	22	50	MK III A, MK III B, MK III C, MK III PR	200	4,8
TKS 30/5	22	76	MK III A, MK III B, MK III C, MK III PR	292	4,8

Ties, TSB type

FEATURES & BENEFITS

- popular steel cable ties with “balls” for wide range of cable bundle diameters
- for difficult climatic or environmental conditions
- OP-TS shields can be used to protect cable bundle insulation





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Halogen-free	yes
Operating temperature [°C]	-80 ÷ +540
Tool type	MK-SD2, MK-SE

DIMENSIONS

S	0,25

CERTIFICATES & STANDARDS

Standards	EN 62275

CE

NOTE!

TSB ties can be used together with OP-TS cover made of PVC.

Type	Material	Tensile strength, min. [daN]	Max. bundle dia. [mm]	L	W
TSB 15/5	stainless steel 316 type according to AISI/ASTM	45	25	152	4,6
TSB 20/5			50	200	
TSB 30/5			80	290	
TSB 40/5			102	360	
TSB 50/5			152	520	
TSB 70/5			203	680	
TSB 80/5			254	840	
TSB 100/5			318	1000	
TSB 15/8		113	25	152	7,9
TSB 20/8			50	200	
TSB 30/8			80	290	
TSB 40/8			102	360	
TSB 50/8			152	520	
TSB 70/8			203	680	
TSB 80/8			254	840	
TSB 100/8			318	1000	
TSB 30/12		200	80	290	12
TSB 40/12			102	360	
TSB 50/12			152	520	
TSB 70/12			203	680	
TSB 80/12			254	840	

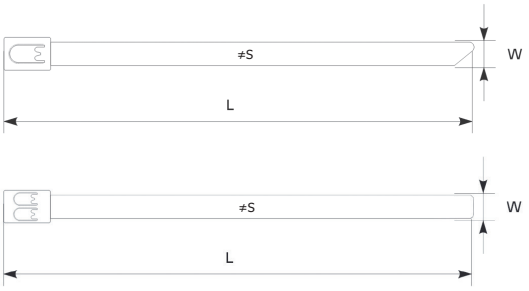
Type	Material	Tensile strength, min. [daN]	Max. bundle dia. [mm]	L	W
TSB 15/5-304	stainless steel 304 type according to AISI/ASTM	45	25	152	4,6
TSB 20/5-304			50	200	
TSB 30/5-304			80	290	
TSB 40/5-304			102	360	
TSB 50/5-304			152	520	
TSB 70/5-304			203	680	
TSB 80/5-304			254	840	
TSB 100/5-304			318	1000	
TSB 15/8-304		113	25	152	7,9
TSB 20/8-304			50	200	
TSB 30/8-304			80	290	
TSB 40/8-304			102	360	
TSB 50/8-304			152	520	
TSB 70/8-304			203	680	
TSB 80/8-304			254	840	
TSB 100/8-304			318	1000	
TSB 30/12-304		200	80	290	12
TSB 40/12-304			102	360	
TSB 50/12-304			152	520	
TSB 70/12-304			203	680	
TSB 80/12-304			254	840	

Tapes with polyester coating, TSBE type

FEATURES & BENEFITS

- polyester-coated steel cable ties with “balls” for wide range of wire harness diameters
- for difficult climatic or environmental conditions, e.g. maritime
- OP-TS shields can be used to protect cable bundle insulation





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Halogen-free	yes
Operating temperature [°C]	-40 ÷ +150
Colour	black
Tool type	MK-SD2, MK-SE

DIMENSIONS

S	0,4

CERTIFICATES & STANDARDS

Standards	EN 62275

NOTE!

TSB ties can be used together with OP-TS cover made of PVC.

Type	Material	Tensile strength, min. [daN]	Max. bundle dia. [mm]	L	W
TSBE 15/5	acid-resistant steel 316 as per AISI/ASTM + polyester coating	45	25	152	4,6
TSBE 20/5			50	200	
TSBE 30/5			80	290	
TSBE 40/5			102	360	
TSBE 50/5			152	520	
TSBE 70/5			203	680	
TSBE 80/5			254	840	
TSBE 20/8		113	50	200	7,9
TSBE 30/8			80	290	
TSBE 40/8			102	360	
TSBE 50/8			152	520	
TSBE 70/8			203	680	
TSBE 80/8			254	840	
TSBE 30/12		200	80	290	12
TSBE 40/12			102	360	
TSBE 50/12			152	520	
TSBE 70/12			203	680	
TSBE 80/12			254	840	

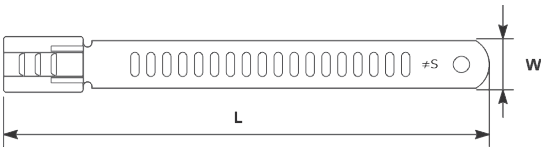
Type	Material	Tensile strength, min. [daN]	Max. bundle dia. [mm]	L	W
TSBE 15/5-304	corrosion-resistant steel 304 as per AISI/ASTM + polyester coating	45	25	152	4,6
TSBE 20/5-304			50	200	
TSBE 30/5-304			80	290	
TSBE 40/5-304			102	360	
TSBE 50/5-304			152	520	
TSBE 70/5-304			203	680	
TSBE 80/5-304			254	840	
TSBE 20/8-304		113	50	200	7,9
TSBE 30/8-304			80	290	
TSBE 40/8-304			102	360	
TSBE 50/8-304			152	520	
TSBE 70/8-304			203	680	
TSBE 80/8-304			254	840	
TSBE 30/12-304		200	80	290	12
TSBE 40/12-304			102	360	
TSBE 50/12-304			152	520	
TSBE 70/12-304			203	680	
TSBE 80/12-304			254	840	

Ties, TST type

FEATURES & BENEFITS

- popular steel cable ties with “ladders” for wide range of cable bundle diameters
- for difficult climatic or environmental conditions





LOGISTIC DATA

Quantity in package [pcs]	100

There is an elastic toothed latch in the buckle. After tightening of the tie, the teeth fall into the holes in the tie, so it is impossible to pull it back. The strip is perforated over the whole length so it is possible to tighten the bundles of various diameters. The solution is designed also for outdoor applications, possibly in marine conditions.
Permissible operation in the mining and chemical industry.

MECHANICAL DATA

Material	acid-proof steel 316 type acc. to AISI/ ASTM
Halogen-free	yes
Operating temperature [°C]	-80 ÷ +540
Tool type	MK-SB

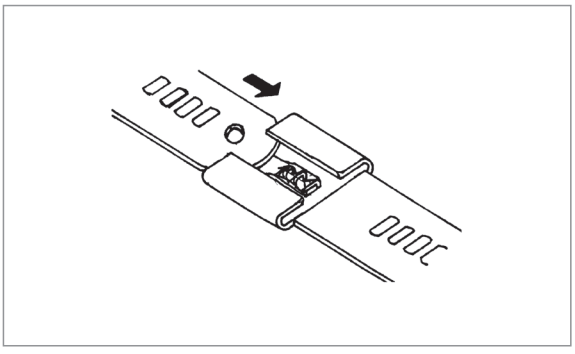
DIMENSIONS

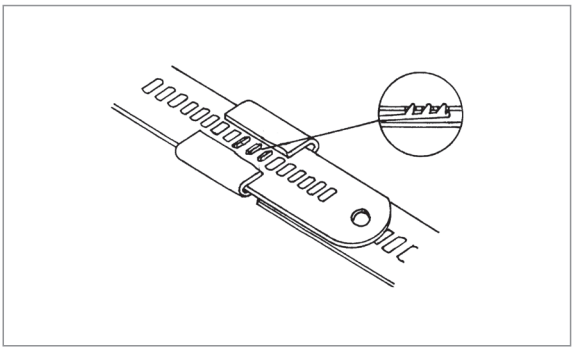
S	0,28

CERTIFICATES & STANDARDS

Standards	EN 62275

Type	Tensile strength, min. [daN]	Max. bundle dia. [mm]	L	W
TST 15/7	34	48	150	7,00
TST 22/7	34	71	225	7,00
TST 30/7	34	96	300	7,00
TST 45/7	34	144	450	7,00
TST 60/7	34	193	600	7,00
TST 15/12	45	48	150	12,00
TST 22/12	45	71	225	12,00
TST 30/12	45	96	300	12,00
TST 45/12	45	144	450	12,00
TST 60/12	45	193	600	12,00

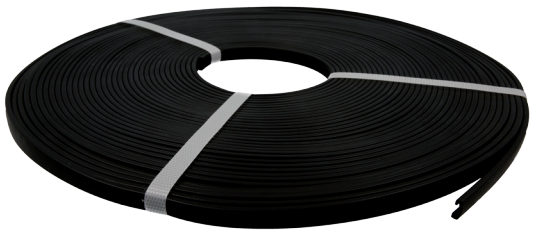




Shield, OP-TS type

FEATURES & BENEFITS

- TSB tie shield in rolls
- protects bundled elements against damage caused by steel tape

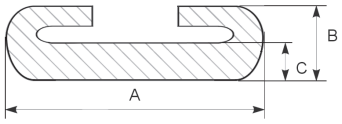


LOGISTIC DATA

Quantity in package [m]	25

APPLICATION

for inserting on the TSB cable ties to insulate the steel ties from a bound bundle or for ensuring flexibility of the tightening on non-deformable fixing elements .



MECHANICAL DATA

Material	PCV
Colour	black, other colours on request (minimum quantity 500 m)
Operating temperature [°C]	-45 ÷ +105

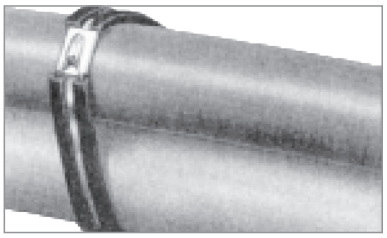
DIMENSIONS

Length [m]	25

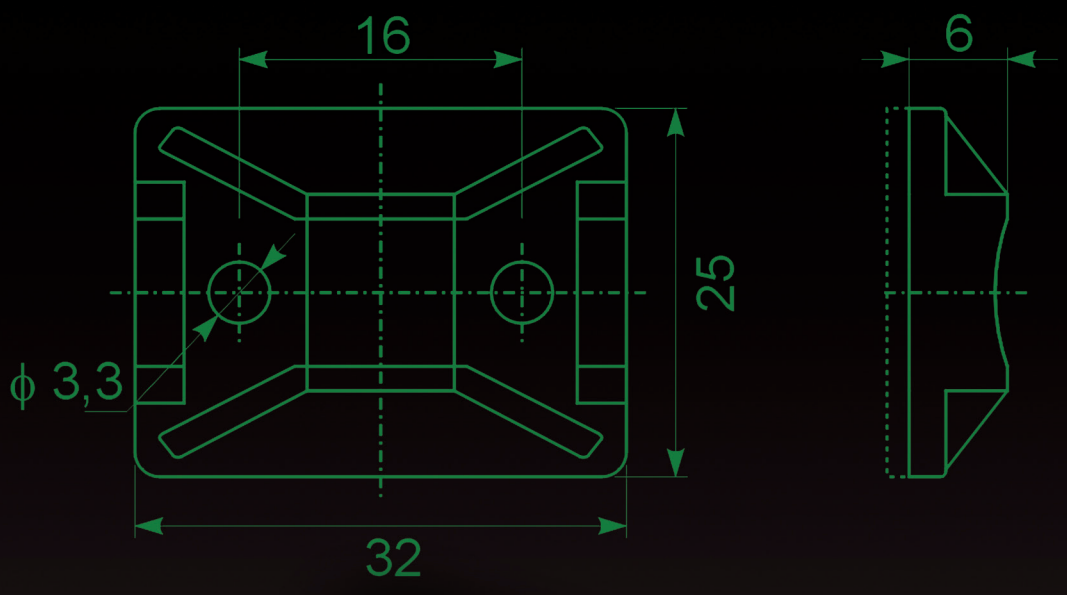
NOTE!

On request, we deliver the OP-TS shields for ties TSR in other widths - minimum quantity delivered is 500 m.

Type	Application	A	B	C
OP-TS5	TSB .../5	8,4	3,2	1,6
OP-TS8	TSB .../8	12,0	4,0	2,0



ERGOM®





Fastening and protective elements

Fastening elements mating with cable ties

Holder, D6 type	37
Fasteners, D 10 type	38
Fasteners, E3 type	39
Fasteners, E4 type	40
Fasteners, ES 10	41
Fasteners, E8 type	42
Fasteners, E9 type	43

Cable fastening elements

Fasteners EE type	44
Cable holders, UG type	45
Cable holders, UGP type	46
Cable holders, UZK type	46
Cable holders, UZP type	47

Cable and bundle protection

Spiral hose, WSN type	48
Edge shield, OKU type	49
Edge shield, OPC type	50
Edge shield, OPN type	51

Fastener, D6 type

FEATURES & BENEFITS

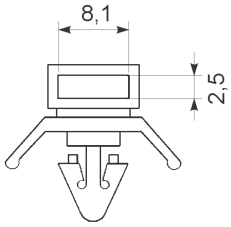
- reliable and fast bundle mounting to enclosure, in hole
- for indoor use



LOGISTIC DATA

Quantity in package [pcs]	100

Fasteners D6RA type are made of material that meets the requirements of the railway standard PN-EN 45545-2:2013+A1:2015 in the field of smoke and toxic substances generation, the D6HT elements are intended for operation at high temperatures.



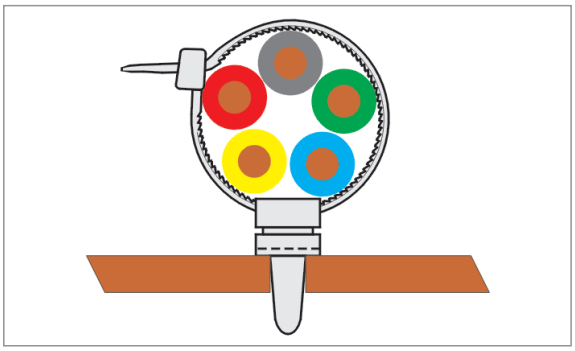
MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes
Installation	by snap-fastening in a Ø6,3 hole; thickness of the structural element from 0,8 mm to 3 mm
Max. tape width [mm]	8
Application in buildings	indoors

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2 (white); UL 94 V0 (black);

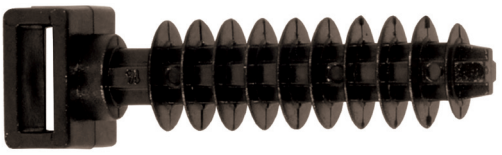
Type	Colour	Operating temperature [°C]	Application in buildings
D6	natural	-30 ÷ +85	indoors
D6 V0	black	-30 ÷ +85	indoors
D6RA	black	-30 ÷ +100	
D6HT	white	-40 ÷ +120	



Fasteners, D 10 type

FEATURES & BENEFITS

- reliable fixing of heavy cable bundles to walls using cable ties
- for indoor use

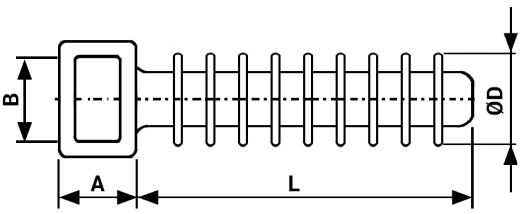


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	polyamide 6
Operating temperature [°C]	-40 ÷ +85
Colour	black



DIMENSIONS

L	37

CERTIFICATES & STANDARDS

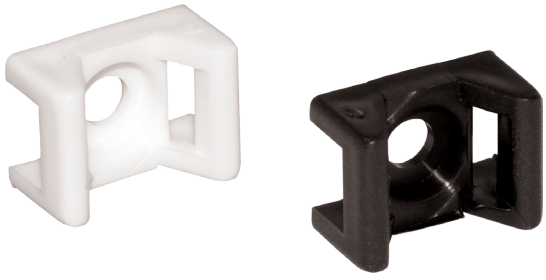
Flammability class	UL 94 V2

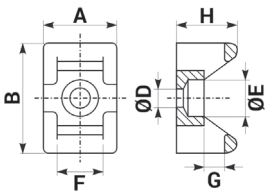
NOTE!

The mounting hole diameter must be adapted to floor material properties.

Type	A	B	D
D 10	6,5	9,2	10
D 10/8	6,0	8,2	8

Fasteners, E3 type





FEATURES & BENEFITS

- reliable fastening of bundle to enclosure, e.g. with screw and cable tie
- wide range of solutions for various ambient conditions

LOGISTIC DATA

Quantity in package [pcs]	100

Fasteners E3RA type are made of material that meets the requirements of the railway standard PN-EN 45545-2:2013+A1:2015 in the field of smoke and toxic substances generation, the E3HT elements are intended for operation at high temperatures.

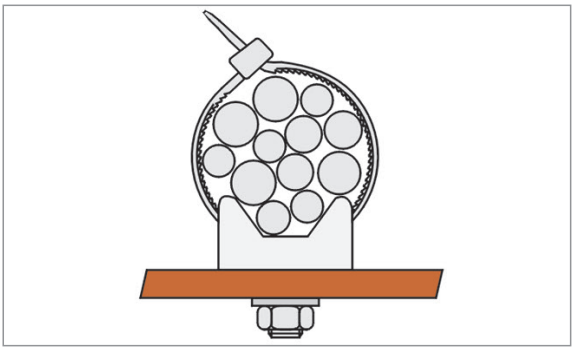
MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes
Installation	by screwing
Application in buildings	indoors

CERTIFICATES & STANDARDS

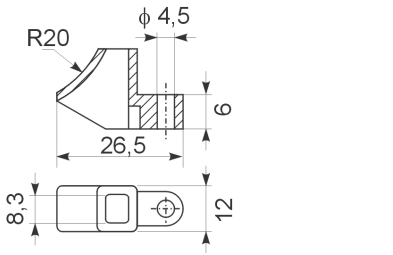
Flammability class	UL 94 V2 (white); UL 94 V0 (black);

Type	Colour	Operating temperature [°C]	Application in buildings	A	B	D	E	F	G	H
E301	white	-40 ÷ +85	indoors	10,7	16	3,7	7	5,4	1,8	7
E301V0	black	-40 ÷ +85	indoors	10,7	16	3,7	7	5,4	1,8	7
E3	white	-40 ÷ +85	indoors	12	18	4,5	8	8,3	2,0	9
E3V0	black	-40 ÷ +85	indoors	12	18	4,5	8	8,3	2,0	9
E3RA	black	-30 ÷ +100		12	18	4,5	8	8,3	2,0	9
E3HT	white	-40 ÷ +120		12	18	4,5	8	8,3	2,0	9
E302	white	-40 ÷ +85	indoors	16	26	5	10	9,8	2,5	11
E302V0	black	-40 ÷ +85	indoors	16	26	5	10	9,8	2,5	11



Fasteners, E4 type





FEATURES & BENEFITS

- reliable fastening of bundle to enclosure, e.g. with screw and cable tie
- to be used in various ambient conditions

LOGISTIC DATA

Quantity in package [pcs]	100

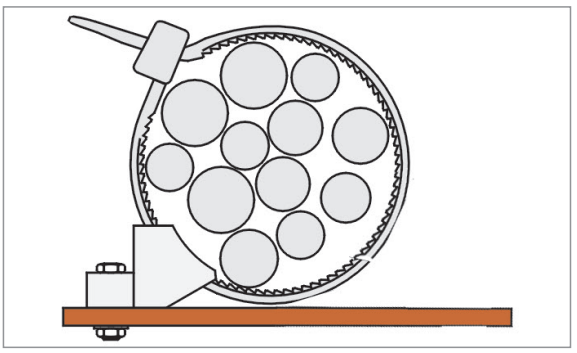
MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes
Installation	by screwing
Operating temperature [°C]	-40 ÷ +85
Max. tape width [mm]	8
Application in buildings	indoors

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2 (white); UL 94 V0 (black);

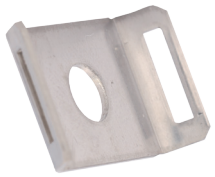
Type	Colour
E4	white
E4V0	black



Holders, ES 10 type

FEATURES & BENEFITS

- stainless steel components for bundle fitting
- reliable fastening of bundle to enclosure, e.g. with screw and TSB cable tie
- for difficult climatic or environmental conditions

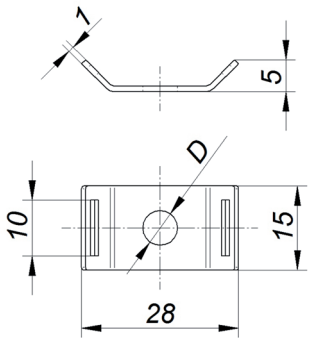


LOGISTIC DATA

Quantity in package [pcs]	100

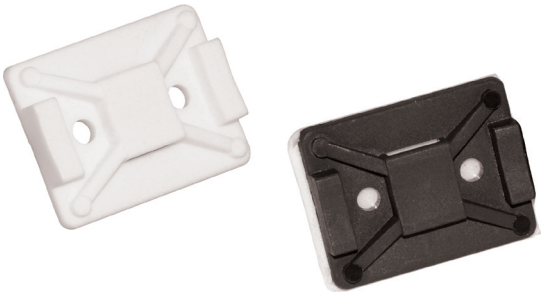
MECHANICAL DATA

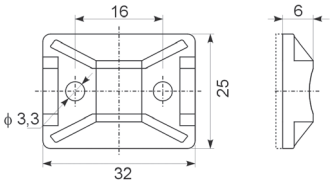
Material	stainless steel 304 type according to AISI/ASTM
Operating temperature [°C]	-80 ÷ +500
Max. tape width [mm]	9,5



Type	D
ES 10/4	4,2
ES 10/6	6,2

Fasteners, E8 type





FEATURES & BENEFITS

- reliable fastening of bundle to enclosure, e.g. with cable tie
- wide range of solutions for various ambient conditions and floor types

LOGISTIC DATA

Quantity in package [pcs]	100

Fasteners E8RA type are made of material that meets the requirements of the railway standard PN-EN 45545-2:2013+A1:2015 in the field of smoke and toxic substances generation, the E8HT elements are intended for operation at high temperatures.

MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes
Max. tape width [mm]	8

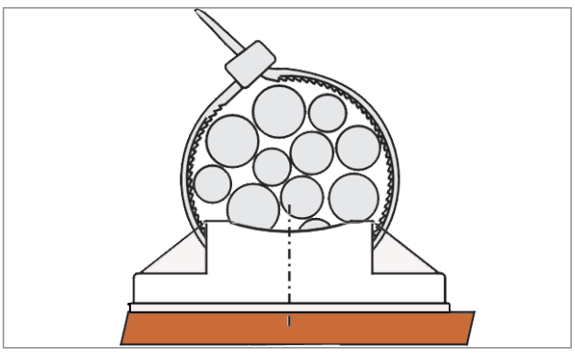
CERTIFICATES & STANDARDS

Flammability class	UL 94 V2 (white); UL 94 V0 (black);

NOTE!

Static load approximated for 20 °C. For minimal and maximum temperatures, the load will be lower. For “S” version, V0 flammability data does not apply to self-adhesive tapes.

Type	Installation	Colour	Operating temperature [°C]	Max. static load [g]	Application in buildings
E8	by screwing	white	-40 ÷ +80		indoors and outdoors
E8S	self-adhesive fastening	white	-30 ÷ +60	220	indoors
E8V0	by screwing	black	-40 ÷ +80		indoors and outdoors
E8S V0	self-adhesive fastening	black	-30 ÷ +60	220	indoors
E8RA	by screwing	black	-30 ÷ +100		
E8HT	by screwing	white	-40 ÷ +120		



Fasteners, E9 type

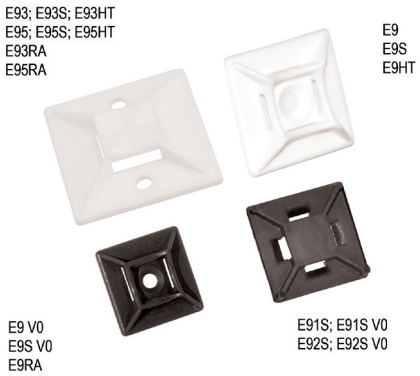
FEATURES & BENEFITS

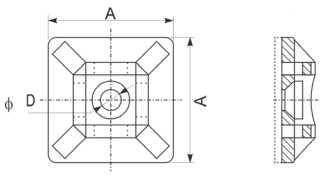
- reliable fastening of bundle to enclosure, e.g. with cable tie
- wide range of solutions for various ambient conditions and floor types

LOGISTIC DATA

Quantity in package [pcs]	100

Fasteners E9...RA type are made of material that meets the requirements of the railway standard PN-EN 45545-2:2013+A1:2015 in the field of smoke and toxic substances generation, the E9...HT elements are intended for operation at high temperatures.





MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes

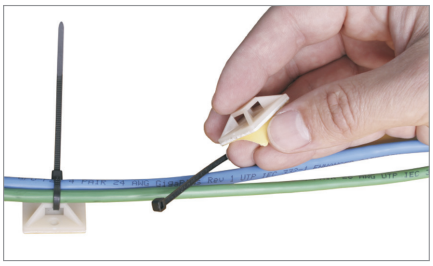
CERTIFICATES & STANDARDS

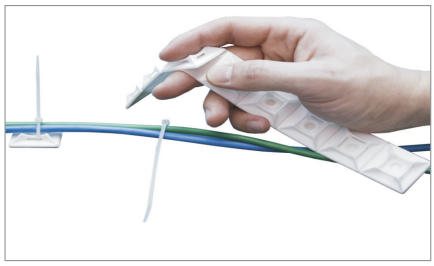
Flammability class	UL 94 V2 (white); UL 94 V0 (black);

NOTE!

- static load approximated for 20°C. For minimal and maximum temperatures, the load will be lower;
- installation as per the manual;
- for “S” version - V0 flammability refers to the self-adhesive tape.

Type	Installation	Colour	Operating temperature [°C]	Max. tape width [mm]	Max. static load [g]	Application in buildings	A	D
E9	by screwing	white	-40 ÷ +85	8		indoors and outdoors	29	4,5
E9S	self-adhesive fastening	white	-30 ÷ +75	8	260	indoors	29	4,5
E9V0	by screwing	black	-40 ÷ +85	8		indoors and outdoors	29	4,5
E9S V0	self-adhesive fastening	black	-30 ÷ +75	8	260	indoors	29	4,5
E9RA	by screwing	black	-30 ÷ +100	8			29	4,5
E9HT	by screwing	white	-40 ÷ +120	8			29	4,5
E91S	self-adhesive fastening	white	-30 ÷ +75	3,6	40	indoors	12,5	4,5
E91S V0	self-adhesive fastening	black	-30 ÷ +75	3,6	40	indoors	12,5	4,5
E92S	self-adhesive fastening	white	-30 ÷ +75	3,6	100	indoors	19	4,5
E92S V0	self-adhesive fastening	black	-30 ÷ +75	6,5	100	indoors	19	4,5
E93	by screwing	white	-40 ÷ +85	6,5		indoors and outdoors	38	2x3,5
E93S	self-adhesive fastening	white	-30 ÷ +75	6,5	170	indoors	38	2x3,5
E93V0	by screwing	black	-40 ÷ +75	6,5		indoors and outdoors	38	2x3,5
E93S V0	self-adhesive fastening	black	-30 ÷ +75	6,5	170	indoors	38	2x3,5
E93RA	by screwing	black	-30 ÷ +100	6,5			38	2x3,5
E93HT	by screwing	white	-40 ÷ +120	6,5			38	2x3,5
E95	by screwing	white	-40 ÷ +85	11,2		indoors and outdoors	38	2x4
E95S	self-adhesive fastening	white	-30 ÷ +75	11,2	460	indoors	38	2x4
E95V0	by screwing	black	-40 ÷ +75	11,2		indoors and outdoors	38	2x4
E95S V0	self-adhesive fastening	black	-30 ÷ +75	11,2	460	indoors	38	2x4
E95RA	self-sticking fastening	black	-30 ÷ +100	11,2			38	2x4
E95HT	self-sticking fastening	white	-40 ÷ +120	11,2			38	2x4





Fasteners, EE type

FEATURES & BENEFITS

- reliable mounting to enclosure or wall with screw
- for indoor use

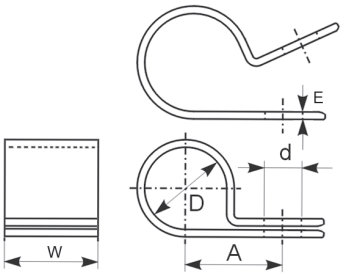


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

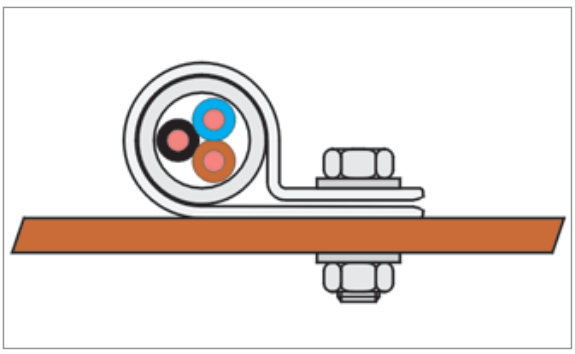
Material	polyamide 6.6
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +85
Colour	transparent



CERTIFICATES & STANDARDS

Flammability class	UL 94 V2

Type	A	D	E	W
EE31	9,5	2,8	1,2	9,5
EE47	10,3	4,6	1,2	9,5
EE63	11,1	5,6	1,2	9,5
EE79	11,9	7,4	1,2	9,5
EE95	12,7	10,0	1,2	9,5
EE127	14,3	11,9	1,2	9,5
EE142	15,1	13,5	1,2	9,5
EE190	17,5	16,8	1,5	12,7
EE222	19	21,9	1,5	12,7
EE285	23	25,0	1,5	12,7



Cable holders, UG type

FEATURES & BENEFITS

- popular elements for wall-fastening
- can be used in multiple floor types into which hardened nails can be hammered
- wide range

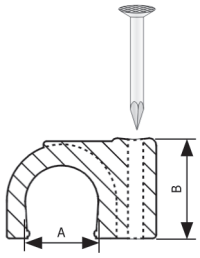


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	polypropylene + steel
Operating temperature [°C]	-40 ÷ +85
Colour	white



Type	A	B
UG 3,5	3,5	4,5
UG 4	4	5,3
UG 5	5	6,5
UG 6	6	8,1
UG 7	7	8,7
UG 8	8	9,6
UG 9	9	10,7
UG 10	10	11,7
UG 12	12	12,8
UG 14	14	14,9
UG 16	16	16,9
UG 18	18	21,5
UG 20	20	23,0
UG 22	22	25,5

Cable holders, UGP type

FEATURES & BENEFITS

- popular elements for wall-fastening of flat cables
- can be used in multiple floor types into which hardened nails can be hammered
- wide range

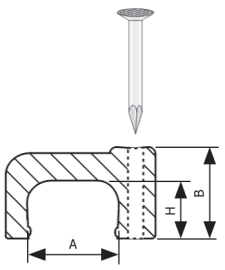


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	polypropylene + steel
Operating temperature [°C]	-40 ÷ +85
Colour	white



Type	A	B	H
UGP 4X4	4	6,0	3,8
UGP 5X4	5	6,0	3,8
UGP 6X4	6	6,5	4,1
UGP 7X4,5	7	7,0	4,7
UGP 8X5	8	7,5	5,0
UGP 9X5,5	9	8,2	5,4
UGP 10X5,5	10	8,6	5,7
UGP 12X6	12	9,0	6,1
UGP 14X5,5	14	6,8	5,5

Cable holders, UZK type

FEATURES & BENEFITS

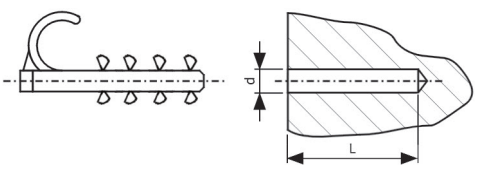
- popular holders for flush-mounted electric systems
- particularly useful for brick and aerated concrete walls

LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	polypropylene
Operating temperature [°C]	-30 ÷ +90
Colour	white
Mounting hole d [mm]	7
Mounting hole L [mm]	35



Type	Cable external diameter [mm]
UZK 1	6 ÷ 10
UZK 2	10 ÷ 16

Cable holders, UZP type

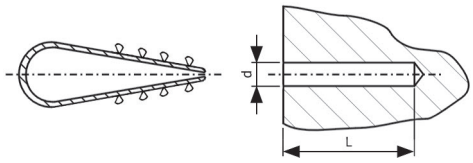
FEATURES & BENEFITS

- popular holders for flush-mounted electric systems
- particularly useful for brick and aerated concrete walls



MECHANICAL DATA

Material	copolymer PE + PP
Operating temperature [°C]	-30 ÷ +70
Colour	white
Mounting hole d [mm]	7



NOTE!

Mounting hole diameter, depending on the substrate type, must be adjusted to the fixture.

Type	Cable external diameter [mm]	Mounting hole L [mm]	Quantity in package [pcs]
UZP 1	max. 6	40	100
UZP 2	6 ÷ 10	50	50

Spiral hose, WSN type

FEATURES & BENEFITS

- popular hoses for bundling cables
- cables can be branched in any bundle section
- mechanical protection of bundled cables
- for wide range of bundle diameters

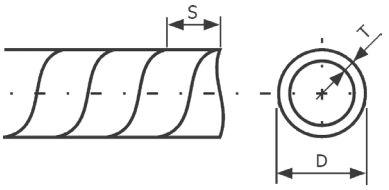


LOGISTIC DATA

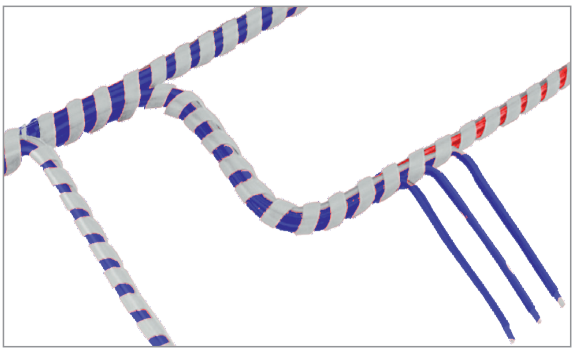
Quantity in package [m]	10

MECHANICAL DATA

Halogen-free	yes
Operating temperature [°C]	-30 ÷ +70



Type	Material	Colour	Bundle dia. [mm]	D	S	T
WSN 3	polyethylene; UL 94 HB	transparent	3÷10	3	5	0,75
WSN 6			6÷18	6	7	1
WSN 8			8÷24	8	11	
WSN 10			10÷32	10	12	
WSN 12			12÷40	12	14	1,5
WSN 15			15÷50	15	15	
WSN 19			19÷65	19	18	2
WSN 24			24÷80	24	20	
WSN 3 S		black	3÷10	3	5	0,75
WSN 6 S			6÷18	6	7	1
WSN 8 S			8÷24	8	11	
WSN 10 S			10÷32	10	12	
WSN 12 S			12÷40	12	14	1,5
WSN 15 S			15÷50	15	15	
WSN 19 S			19÷65	19	18	2
WSN 24 S			24÷80	24	20	
WSN 3 V2	self-extinguishing polyethylene; UL 94 V2	white	3÷10	3	5	0,75
WSN 6 V2			6÷18	6	7	1
WSN 8 V2			8÷24	8	11	
WSN 10 V2			10÷32	10	12	
WSN 12 V2			12÷40	12	14	1,5
WSN 15 V2			15÷50	15	15	
WSN 19 V2			19÷65	19	18	2
WSN 24 V2			24÷80	24	20	



Edge shield, OKU type

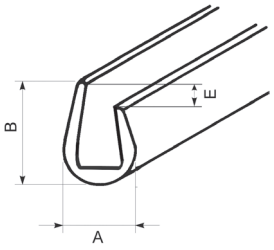
FEATURES & BENEFITS

- sheet metal edge shields in enclosures at wire and cable routing points
- protects wire insulation from damage
- for a wide range of enclosure wall thickness



MECHANICAL DATA

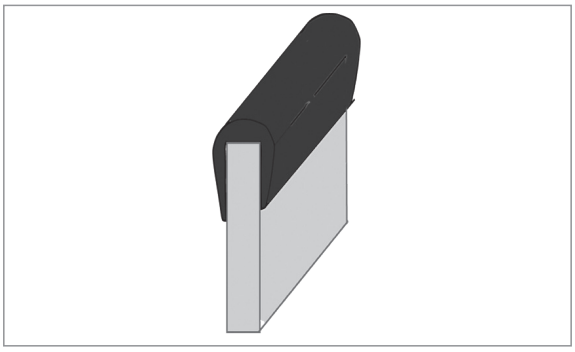
Material	PCV resistant to typical solvents, lubricants, oils, sea water, moulds etc.
Operating temperature [°C]	-30 ÷ +70
Assembly temperature [°C]	-5 ÷ +35
Colour	black



NOTE!

RD, BL, GY, WT, YL colours on request - for details visit www.ergom.com

Type	Metal plate thickness [mm]	A	B	E	Quantity in package [m]
OKU 1/0,5	0,4÷0,7	3,5	7,5	0,5	50
OKU 2/1	0,8÷1,2	4,5	9,5	0,5	50
OKU 3/1,5	1,2÷1,8	5,0	10,0	0,5	50
OKU 4/2	1,7÷2,3	5,5	10,5	1,0	25
OKU 5/2,5	2,2÷2,8	6,5	12,5	1,0	25
OKU 6/3	2,7÷3,3	7,5	13,0	1,5	25
OKU 7/3,5	3,3÷3,8	7,5	14,0	1,5	25
OKU 8/4	3,7÷4,3	8,5	14,0	2,0	25
OKU 9/4,5	4,2÷4,8	9,5	15,5	2,0	25
OKU 10/5	4,6÷5,4	10,5	16,5	2,0	25
OKU 11/5,5	5,1÷5,9	11,5	17,5	2,0	25
OKU 12/6	5,6÷6,4	12,0	19,0	2,0	25



Edge shield, OPC type

FEATURES & BENEFITS

- sheet metal edge shields in enclosures at wire and cable routing points
- protects wire insulation from damage by easily adapting to the protected edge shape, e.g. in opening, due to stresses
- for a wide range of enclosure wall thickness

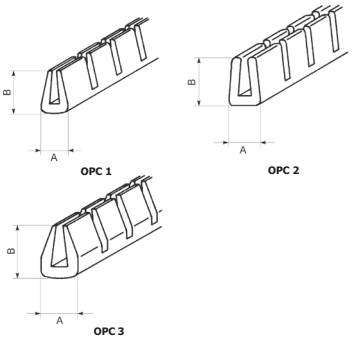


LOGISTIC DATA

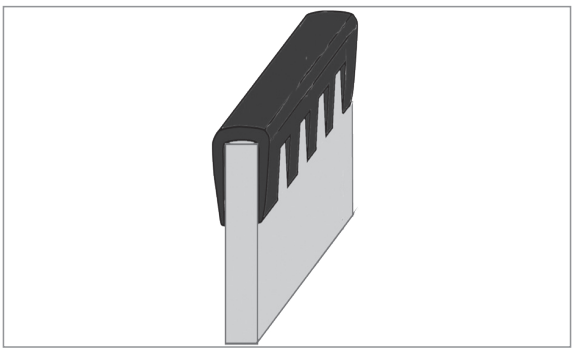
Quantity in package [m]	50

MECHANICAL DATA

Material	PCV resistant to typical solvents, lubricants, oils, sea water, moulds etc.
Operating temperature [°C]	-30 ÷ +70
Assembly temperature [°C]	-5 ÷ +35
Colour	black



Type	Min. bending radius [mm]	Metal plate thickness [mm]	A	B
OPC-1	45	0,4÷1,3	5,0	9,0
OPC-2	55	1,3÷2,2	6,5	9,5
OPC-3	65	2,2÷3,3	7,5	11,0



Edge shield, OPN type

FEATURES & BENEFITS

- sheet metal edge shields in enclosures at wire and cable routing points
- protects wire insulation from damage
- for a wide range of enclosure wall thickness

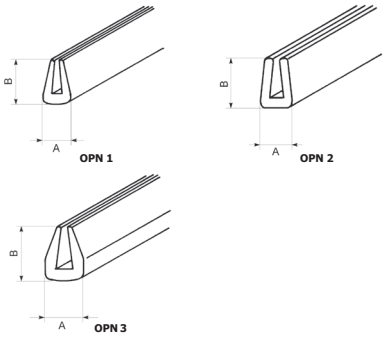


LOGISTIC DATA

Quantity in package [m]	50

MECHANICAL DATA

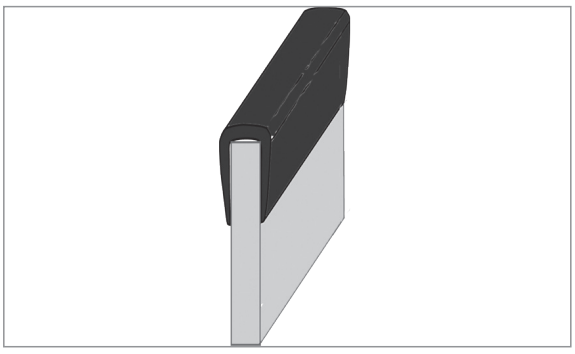
Material	PCV resistant to typical solvents, lubricants, oils, sea water, moulds etc.
Operating temperature [°C]	-30 ÷ +70
Assembly temperature [°C]	-5 ÷ +35
Colour	black



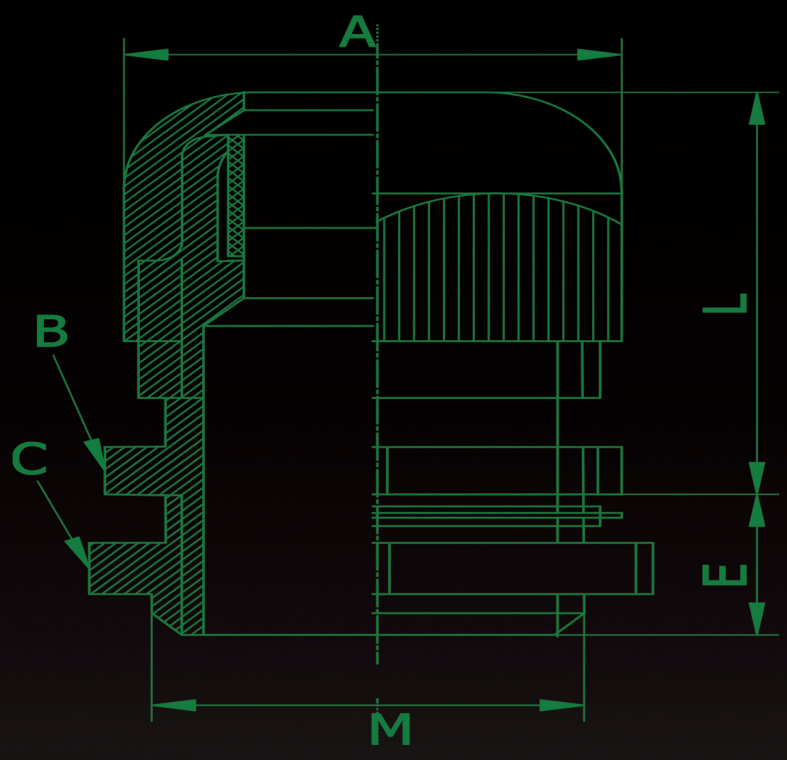
NOTE!

RD, BL, GY, WT, YL colours on request - for details visit www.ergom.com

Type	Metal plate thickness [mm]	A	B
OPN-1	0,4÷1,3	5,0	9,0
OPN-2	1,3÷2,2	6,5	9,5
OPN-3	2,2÷3,3	7,5	11,0



ERGOM®





Cable glands

Plastic cable glands

Insulating gland, DP...H, DP...H BK type	55
Insulating gland, DP...HML	56

Metal cable glands

Brass gland, MDW...H MDW...HM type	57
Brass gland, MDW...H type	58
Brass gland, MDW...HML type	59

Cable grommets

Rubber grommet, BDE type	60
Cable grommet, HV type	61
Hole plug, HP type	62
Flexible grommet, PV type	63
Rubber grommets, GH type	64

Insulating gland, DP...H, DP...H BK type

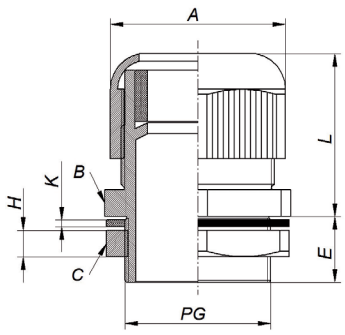
FEATURES & BENEFITS

- popular glands with internal lamellas on cap nut, PG thread
- highest degree of protection - IP68
- set includes fixing nut and flat seal



MECHANICAL DATA

Material	body: polyamide 6; seal - NBR
Colour	grey (RAL 7035), black BK (RAL 9005)
Operating temperature [°C]	-30 ÷ +80



CERTIFICATES & STANDARDS

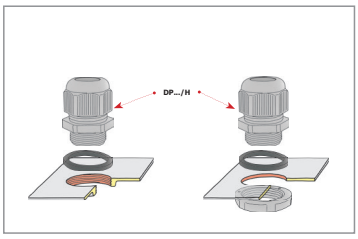
IP degree of protection	IP68
Flammability class	UL 94 V2
Standards	EN 50262; type A

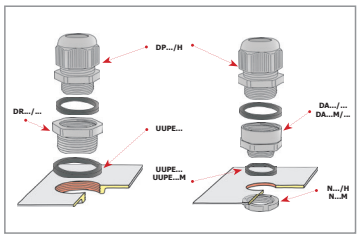
NOTE!

Gland, nut and sealing washer in a kit.

CE

Type	E	H	L	K	For spanner A	For spanner B	For spanner C	Colour	PG thread	Cable external diameter [mm]	Quantity in package [pcs]
DP 7/H	8	5,0	20	1,2	16	16	18	grey	P7	3,5÷6,0	100 / 10
DP 9/H	8	5,0	22	1,14	19	19	21	grey	P9	4,5÷7,0	100 / 10
DP 11/H	8	5,5	24	1,4	22	22	24	grey	P11	5,5÷10,0	100 / 10
DP 13/H	9	5,5	27	1,4	24	24	27	grey	P13,5	8,0÷12,0	100 / 10
DP 16/H	10	6,0	28	1,4	26	27	29	grey	P16	10,0÷14,0	100 / 10
DP 21/H	10	6,5	30	1,4	32	33	36	grey	P21	14,0÷18,0	50 / 10
DP 29/H	15	7,0	38	1,5	42	42	45	grey	P29	18,0÷25,0	50 / 10
DP 36/H	18	7,0	45	1,5	53	51	57	grey	P36	24,0÷32,0	10
DP 42/H	18	7,0	48	2,0	61	60	65	grey	P42	30,0÷38,0	10 / 1
DP 48/H	18	7,0	48	1,7	65	64	70	grey	P48	38,0÷44,0	10 / 1
DP 63/H	26	9,0	58	2,0	76	76	81	grey	70.5 installation opening	42,0÷52,0	10 / 1
DP 7 H BK	8	5,0	20	1,2	16	16	18	black	P7	3,5÷6,0	100 / 10
DP 9 H BK	8	5,0	22	1,14	19	19	21	black	P9	4,5÷7,0	100 / 10
DP 11 H BK	8	5,5	24	1,4	22	22	24	black	P11	5,5÷10,0	100 / 10
DP 13 H BK	9	5,5	27	1,4	24	24	27	black	P13,5	8,0÷12,0	100 / 10
DP 16 H BK	10	6,0	28	1,4	26	27	29	black	P16	10,0÷14,0	100 / 10
DP 21 H BK	10	6,5	30	1,4	32	33	36	black	P21	14,0÷18,0	50 / 10
DP 29 H BK	12	7,0	38	1,5	42	42	45	black	P29	18,0÷25,0	50 / 10
DP 36 H BK	14	7,0	45	1,5	53	51	57	black	P36	24,0÷32,0	10
DP 42 H BK	14	7,0	48	2,0	61	60	65	black	P42	30,0÷38,0	10 / 1
DP 48 H BK	18	7,0	48	1,7	65	64	70	black	P48	38,0÷44,0	10 / 1
DP 63 H BK	26	9,0	58	2,0	76	76	81	black	70.5 installation opening	42,0÷52,0	10 / 1



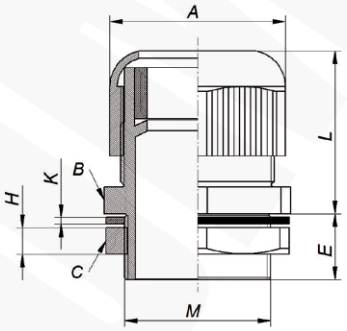


Insulating gland, DP-EN...HM, DP-EN...HM BK type

FEATURES & BENEFITS

- popular glands with internal lamellas on cap nut, M thread
- highest degree of protection - IP68
- set includes fixing nut and flat seal





MECHANICAL DATA

Material	body: polyamide 6; seal - NBR
Colour	grey (RAL 7035), black BK (RAL 9005)
Operating temperature [°C]	-30 ÷ +80

CERTIFICATES & STANDARDS

IP degree of protection	IP68
Flammability class	UL 94 V2
Standards	EN 50262; type A

NOTE!

Gland, nut and sealing washer in a kit.

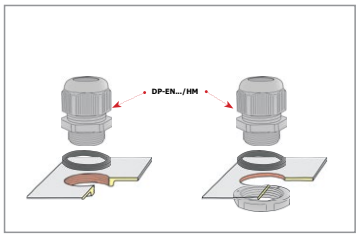
CE

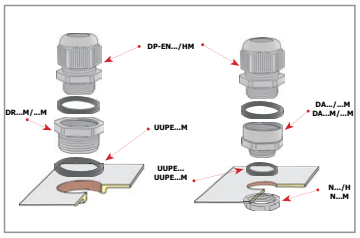
Type	Index Ergom	E	H	L	K	For spanner A	For spanner B	For spanner C	Colour	M thread	Cable external diameter [mm]	Quantity in package [pcs]
DP-EN 12 HM (10 PCS)	E03DK-01040100103	8	5,0	22	1,2	16	16	18	grey	M12x1,5	3,0÷6,5	10
DP-EN 12 HM (100 PCS)	E03DK-01040100101	8	5,0	22	1,2	16	16	18	grey	M12x1,5	3,0÷6,5	100
DP-EN 16 HM (100 PCS)	E03DK-01040100201	8	5,0	26	1,4	19	19	21	grey	M16x1,5	4,0÷8,0	100
DP-EN 16 HM (10 PCS)	E03DK-01040100203	8	5,0	26	1,4	19	19	21	grey	M16x1,5	4,0÷8,0	10
DP-EN 20 HM (100 PCS)	E03DK-01040100301	9	5,5	28	1,4	24	24	27	grey	M20x1,5	7,0÷12,0	100
DP-EN 20 HM (10 PCS)	E03DK-01040100303	9	5,5	28	1,4	24	24	27	grey	M20x1,5	7,0÷12,0	10
DP-EN 25 HM (50 PCS)	E03DK-01040100401	10	6,3	36	1,4	32	33	33	grey	M25x1,5	11,0÷18,0	50
DP-EN 25 HM (10 PCS)	E03DK-01040100403	10	6,3	36	1,4	32	33	33	grey	M25x1,5	11,0÷18,0	10
DP-EN 32 HM (50 PCS)	E03DK-01040100501	11	7,3	40	1,7	35	36	39	grey	M32x1,5	16,0÷21,0	50
DP-EN 32 HM (10 PCS)	E03DK-01040100503	11	7,3	40	1,7	35	36	39	grey	M32x1,5	16,0÷21,0	10
DP-EN 40 HM (10 PCS)	E03DK-01040100601	18	7,5	48	1,7	53	51	50	grey	M40x1,5	20,0÷32,0	10
DP-EN 50 HM (10 PCS)	E03DK-01040100701	18	7,5	49	1,7	61	58	60	grey	M50x1,5	30,0÷38,0	10
DP-EN 50 HM	E03DK-01040100703	18	7,5	49	1,7	61	58	60	grey	M50x1,5	30,0÷38,0	1
DP-EN 63 HM (10 PCS)	E03DK-01040100801	18	7,5	50	1,7	67	67	74	grey	M63x1,5	36,0÷44,0	10
DP-EN 63 HM	E03DK-01040100803	18	7,5	50	1,7	67	67	74	grey	M63x1,5	36,0÷44,0	1
DP-EN 63-2 HM (10 PCS)	E03DK-01040100901	26	11,0	58	2,0	76	76	73	grey	M63x1,5	42,0÷50,0	10
DP-EN 63-2 HM	E03DK-01040100903	26	11,0	58	2,0	76	76	73	grey	M63x1,5	42,0÷50,0	1
DP-EN 12 HM BK (100 PCS)	E03DK-01040120101	8	5,0	22	1,2	16	16	18	black	M12x1,5	3,0÷6,5	100
DP-EN 12 HM BK (10 PCS)	E03DK-01040120103	8	5,0	22	1,2	16	16	18	black	M12x1,5	3,0÷6,5	10
DP-EN 16 HM BK (100 PCS)	E03DK-01040120501	8	5,0	26	1,4	19	19	21	black	M16x1,5	4,0÷8,0	100
DP-EN 16 HM BK (10 PCS)	E03DK-01040120503	8	5,0	26	1,4	19	19	21	black	M16x1,5	4,0÷8,0	10
DP-EN 20 HM BK (100 PCS)	E03DK-01040121001	9	5,5	28	1,4	24	24	27	black	M20x1,5	7,0÷12,0	100
DP-EN 20 HM BK (10 PCS)	E03DK-01040121003	9	5,5	28	1,4	24	24	27	black	M20x1,5	7,0÷12,0	10
DP-EN 25 HM BK (50 PCS)	E03DK-01040123001	10	6,3	36	1,4	32	33	33	black	M25x1,5	11,0÷18,0	50
DP-EN 25 HM BK (10 PCS)	E03DK-01040123003	10	6,3	36	1,4	32	33	33	black	M25x1,5	11,0÷18,0	10
DP-EN 32 HM BK (50 PCS)	E03DK-01040124001	11	7,3	40	1,7	35	36	39	black	M32x1,5	16,0÷21,0	50
DP-EN 32 HM BK (10 PCS)	E03DK-01040124003	11	7,3	40	1,7	35	36	39	black	M32x1,5	16,0÷21,0	10
DP-EN 40 HM BK (10 PCS)	E03DK-01040125001	18	7,5	48	1,7	53	51	50	black	M40x1,5	20,0÷32,0	10

Date of publication: 17/11/2022

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Type	Index Ergom	E	H	L	K	For spanner A	For spanner B	For spanner C	Colour	M thread	Cable external diameter [mm]	Quantity in package [pcs]
DP-EN 50 HM BK (10 PCS)	E03DK-01040126001	18	7,5	49	1,7	61	58	60	black	M50x1,5	30,0÷38,0	10
DP-EN 50 HM BK	E03DK-01040126003	18	7,5	49	1,7	61	58	60	black	M50x1,5	30,0÷38,0	1
DP-EN 63 HM BK (10 PCS)	E03DK-01040127001	18	7,5	50	1,7	67	67	74	black	M63x1,5	36,0÷44,0	10
DP-EN 63 HM BK	E03DK-01040127003	18	7,5	50	1,7	67	67	74	black	M63x1,5	36,0÷44,0	1
DP-EN 63-2 HM BK (10 PCS)	E03DK-01040128001	26	11,0	58	2,0	76	76	73	black	M63x1,5	42,0÷50,0	10
DP-EN 63-2 HM BK	E03DK-01040128003	26	11,0	58	2,0	76	76	73	black	M63x1,5	42,0÷50,0	1





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Insulating gland, DP...HML type

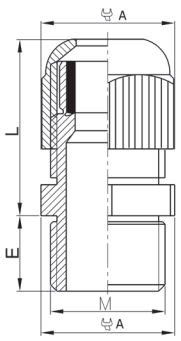
FEATURES & BENEFITS

- brass glands with long metric threads for thick-walled enclosures
- highest degree of protection - IP68
- set includes fixing nut and flat seal



MECHANICAL DATA

Material	body: polyamide 6; seal - CR
Halogen-free	yes
Colour	grey (RAL 7035)
Operating temperature [°C]	-30 ÷ +80



DIMENSIONS

E	15

CERTIFICATES & STANDARDS

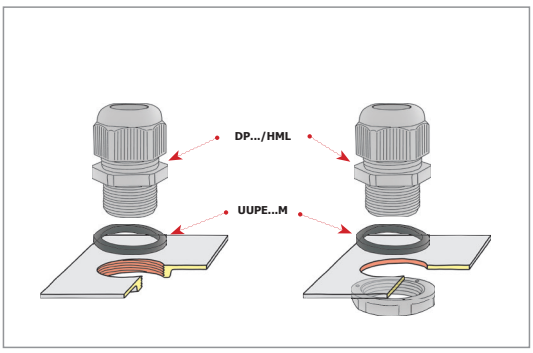
IP degree of protection	IP68
Flammability class	UL 94 V2
Standards	EN 50262; type A

CE

NOTE!

Gland and nut in a kit, without sealing washer.

Type	L	For spanner A	M thread	Cable external diameter [mm]	Quantity in package [pcs]
DP 16HML	24	22	M16x1,5	5,0÷10,0	100 / 10
DP 20 HML	28	24	M20x1,5	6,0÷12,0	100 / 10
DP 20 HML 2	32	27	M20x1,5	10,0÷14,0	100 / 10
DP 25 HML	36	33	M25x1,5	13,0÷18,0	50 / 10



Brass gland, MDW...H MDW...HM

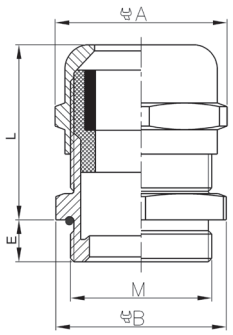
FEATURES & BENEFITS

- popular brass glands with cap nut and polyamide insert with lamellas, M thread
- highest degree of protection - IP68 (factory-mounted O-ring)
- for indoor and outdoor use



MECHANICAL DATA

Material	body: nickel-plated brass; sealing ring: neoprene; clamping insert: PA 6; o-ring: NBR
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +100



CERTIFICATES & STANDARDS

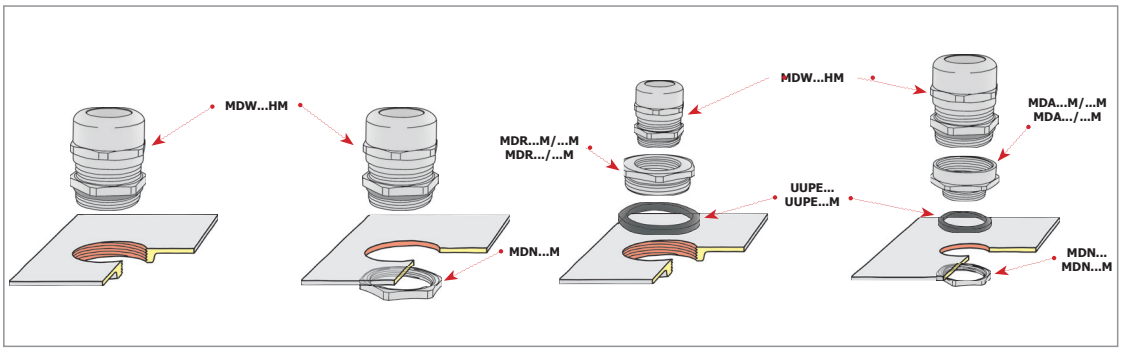
IP degree of protection	IP68
Standards	EN 50262; type A

NOTE!

MDN Nuts are to be ordered separately.

CE

Type	E	L	For spanner A	For spanner B	M thread	Cable external diameter [mm]	Quantity in package [pcs]
MDW 12HM	6	20	14	14	M 12x1,5	3÷6,5	50 / 10
MDW 16HM	7	21	17	18	M16x1,5	4÷8	50 / 10
MDW 20HM	8	22	22	22	M20x1,5	6÷12	50 / 10
MDW 25HM	8	24	24	27	M25x1,5	10÷14	25 / 10
MDW 32HM	9	28	30	34	M32x1,5	13÷18	25 / 10
MDW 40HM	9	32	40	43	M40x1,5	18÷25	5 / 10
MDW 50HM	9	38	50	55	M50x1,5	22÷32	5 / 1
MDW 63HM	14	44	64	68	M63x1,5	34÷44	5 / 1



Brass gland, MDW...H

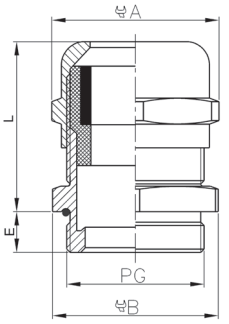
FEATURES & BENEFITS

- popular brass glands with cap nut and polyamide insert with lamellas, PG thread
- highest degree of protection - IP68 (factory-mounted O-ring)
- for indoor and outdoor use



MECHANICAL DATA

Material	body: nickel-plated brass; sealing ring: neoprene; clamping insert: PA 6; o-ring: NBR
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +100



CERTIFICATES & STANDARDS

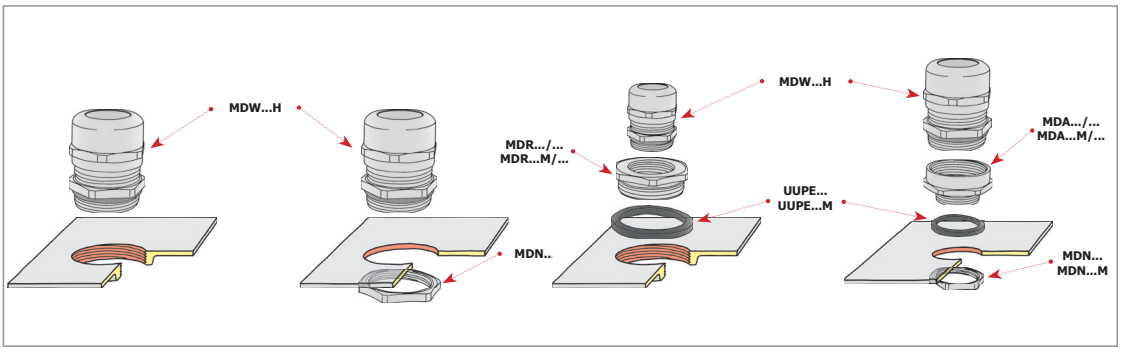
IP degree of protection	IP68
Standards	EN 50262; type A

NOTE!

MDN Nuts are to be ordered separately.

CE

Type	E	L	For spanner A	For spanner B	PG thread	Cable external diameter [mm]	Quantity in package [pcs]
MDW 7H	6,0	20	14	14	P7	3÷6,5	50 / 10
MDW 9H	6,0	21	17	17	P9	4÷8	50 / 10
MDW 11H	6,0	22	20	20	P11	5÷10	50 / 10
MDW 13H	6,5	22	22	22	P13,5	6÷12	50 / 10
MDW 16H	6,5	24	24	24	P16	10÷14	50 / 10
MDW 21H	7,0	28	30	30	P21	13÷18	25 / 10
MDW 29H	8,0	32	40	40	P29	18÷25	25 / 10
MDW 36H	10,0	38	50	50	P36	22÷32	5 / 10
MDW 42H	12,0	42	58	58	P42	30÷38	5 / 1
MDW 48H	14,0	44	64	64	P48	34÷44	5 / 1



Brass gland, MDW...HML

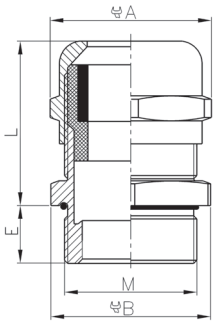
FEATURES & BENEFITS

- long-thread brass glands for thick-walled enclosures, M threads
- highest degree of protection - IP68 (factory-mounted O-ring)
- for indoor and outdoor use



MECHANICAL DATA

Material	body: nickel-plated brass; sealing ring: neoprene; clamping insert: PA 6; o-ring: NBR
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +100



CERTIFICATES & STANDARDS

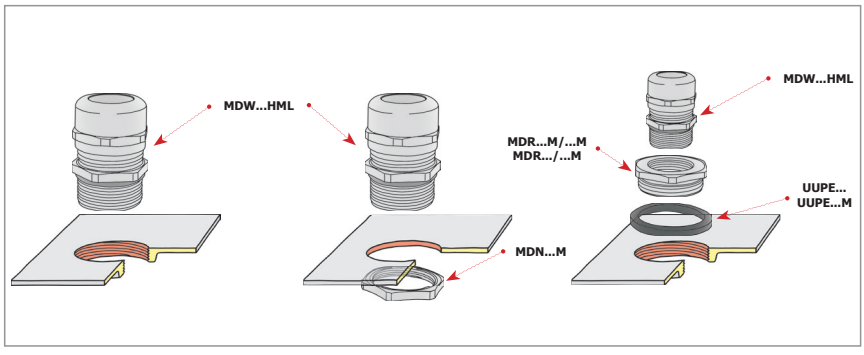
IP degree of protection	IP68
Standards	EN 50262; type A

NOTE!

MDN Nuts are to be ordered separately.

CE

Type	E	L	For spanner A	For spanner B	M thread	Cable external diameter [mm]	Quantity in package [pcs]
MDW 12HML	12	20	14	14	M12x1,5	3÷6,5	10
MDW 16HML	12	21	17	18	M16x1,5	4÷8	10
MDW 20HML	12	22	22	22	M20x1,5	6÷12	10
MDW 25HML	12	24	24	27	M25x1,5	10÷14	10
MDW 32HML	15	28	30	34	M32x1,5	13÷18	10
MDW 40HML	15	32	40	43	M40x1,5	18÷25	10
MDW 50HML	15	38	50	55	M50x1,5	22÷32	1
MDW 63HML	18	44	64	68	M63x1,5	34÷44	1



Rubber grommet, BDE type

FEATURES & BENEFITS

- popular rubber grommets
- recommended for sheathed cables supplying portable receivers, e.g. welding cables

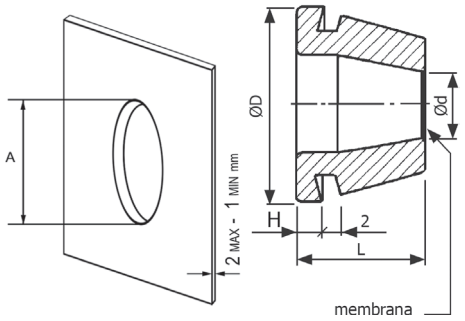


MECHANICAL DATA

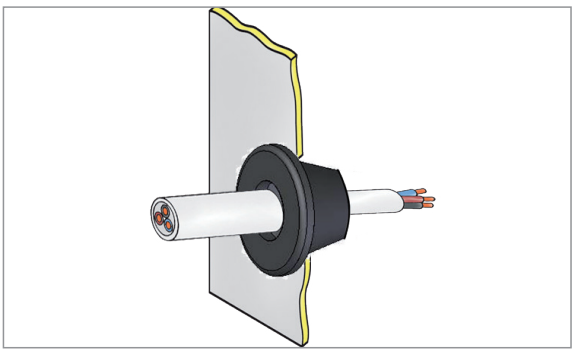
Material	SBR+NR rubber
Halogen-free	yes
Operating temperature [°C]	-30 ÷ +85

CERTIFICATES & STANDARDS

IP rating	IP30 minimum



Type	A	D	d	H	L	Colour	Cable external diameter [mm]	Quantity in package [pcs]
BDE 11	16,5	24	7,0	4	30	black (RAL 9004)	6 ÷8	100
BDE 13	21	31	8,0	6	23	black (RAL 9004)	9÷12	100
BDE 16	23	34	10,5	6	23	black (RAL 9004)	11÷15	100
BDE 21	29	42	13,5	6	25	black (RAL 9004)	14÷18	100
BDE 29	38	50	17,0	7	30	black (RAL 9004)	18÷25	50
BDE 36	48	62	22,0	8	34	black (RAL 9004)	24÷34	20
BDE 42	55	63	31,0	8	39	black (RAL 9004)	31÷44	10
BDE 48	65	72	41,0	8	45	black (RAL 9004)	40÷54	10
BDE 54	78	85	51,0	8	50	black (RAL 9004)	52÷66	10
BDE 67	90	97	63,0	8	63	black (RAL 9004)	65÷78	10
BDE 11WT	16,5	24	7,0	4	30	white (RAL 9001)	6 ÷8	100
BDE 13WT	21	31	8,0	6	23	white (RAL 9001)	9÷12	100
BDE 16WT	23	34	10,5	6	23	white (RAL 9001)	11÷15	100
BDE 21WT	29	42	13,5	6	25	white (RAL 9001)	14÷18	100
BDE 29 WT	38	50	17,0	7	30	white (RAL 9001)	18÷25	50
BDE 36 WT	48	62	22,0	8	34	white (RAL 9001)	24÷34	20
BDE 42 WT	55	63	31,0	8	39	white (RAL 9001)	31÷44	10
BDE 48 WT	65	72	41,0	8	45	white (RAL 9001)	40÷54	10
BDE 54 WT	78	85	51,0	8	50	white (RAL 9001)	52÷66	10
BDE 67 WT	90	97	63,0	8	63	white (RAL 9001)	65÷78	10



Cable grommet, HV type

FEATURES & BENEFITS

- plastic grommets
- protection of cables routed through holes in boxes/switchgear, particularly ones made of metal
- snap-fastening



LOGISTIC DATA

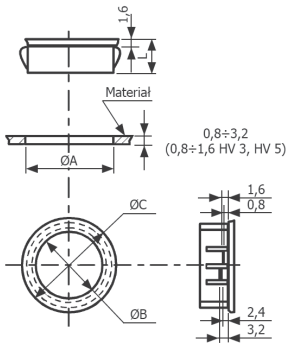
Quantity in package [pcs]	100

MECHANICAL DATA

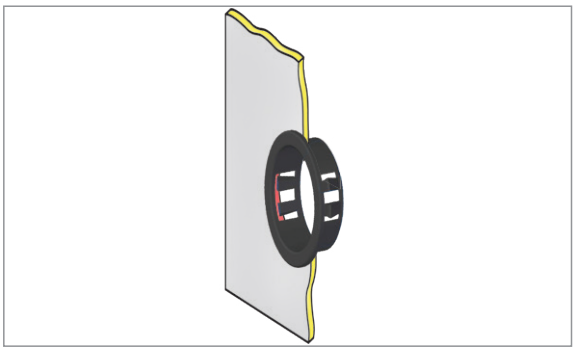
Material	polyamide 6.6
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +85

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2



Type	A	B	C	L	Colour
HV 3 BK	6,4	3,2	8,0	8,0	black
HV 5 BK	7,6	4,8	12,0	8,0	black
HV 6 BK	9,5	6,3	12,0	10,3	black
HV 8 BK	11,1	8,0	15,0	10,3	black
HV 9 BK	12,7	8,2	14,5	10,3	black
HV 12 BK	15,9	12,2	18,6	10,3	black
HV 15 BK	19,1	14,3	21,5	10,3	black
HV 16 BK	19,6	16,0	24,0	11,5	black
HV 19 BK	22,0	17,3	23,8	11,5	black
HV 21 BK	25,1	19,1	28,0	11,5	black
HV 24 BK	29,7	24,1	32,5	11,5	black
HV 29 BK	38,1	29,0	41,2	11,5	black
HV 6 WT	9,5	6,3	12,0	10,3	white
HV 8 WT	11,1	8,0	15,0	10,3	white
HV 12 WT	15,9	12,2	18,6	10,3	white
HV 16 WT	19,6	16,0	24,0	11,5	white



Hole plug, HP type

FEATURES & BENEFITS

- plastic hole plugs
- to plug temporarily unused holes
- snap-fastening



LOGISTIC DATA

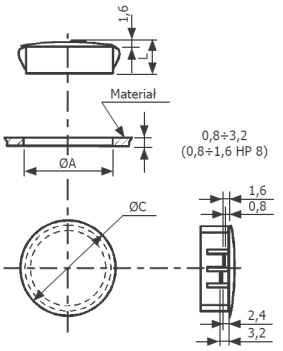
Quantity in package [pcs]	100

MECHANICAL DATA

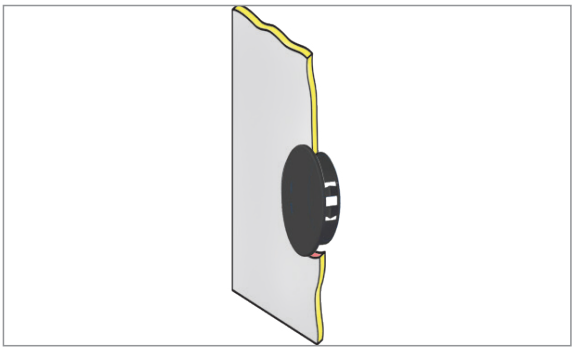
Material	polyamide 6.6
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +85

CERTIFICATES & STANDARDS

Flammability class	UL 94 V2



Type	A	C	L	Colour
HP-8	7,9	11,9	8,0	black
HP-10	9,5	13,0	10,5	black
HP-11WT	11,1	15,0	10,5	white
HP-11	11,1	15,0	10,5	black
HP-13	12,7	16,9	10,5	black
HP-16	16,0	19,8	10,5	black
HP-19	19,1	22,9	10,5	black
HP-20WT	19,6	24,0	10,5	white
HP-20	19,6	24,0	10,5	black
HP-22	22,0	24,9	11,3	black
HP-25	25,1	28,3	11,5	black
HP-30	30,0	34,2	11,5	black



Flexible grommet, PV type

FEATURES & BENEFITS

- popular rubber grommets
- easy to use, low-cost cable protection

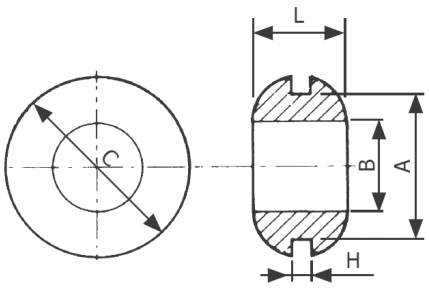


LOGISTIC DATA

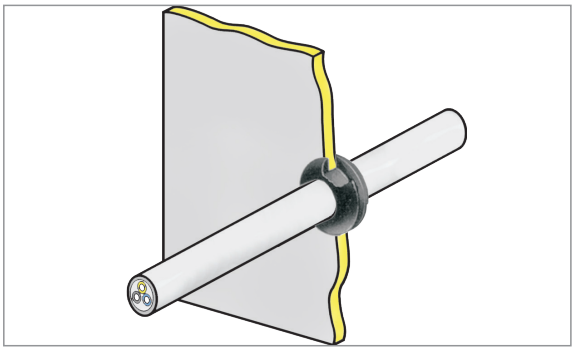
Quantity in package [pcs]	100

MECHANICAL DATA

Material	PCV
Colour	black
Operating temperature [°C]	-20 ÷ +80



Type	A	B	C	H	L
PV 3	4,8	3,2	6,4	1,6	6,4
PV 5	6,4	4,8	11,1	1,6	7,0
PV 6	9,5	6,4	14,2	1,6	6,4
PV 8	11,0	8,0	16,0	1,6	6,4
PV 8A	12,5	8,0	16,0	3,0	8,0
PV 10	12,5	9,5	17,0	1,6	7,0
PV 10A	12,5	9,5	17,0	3,0	8,8
PV 12	16,0	12,5	20,5	1,2	7,0
PV 16	19,0	16,0	24,0	1,6	6,0
PV 19	25,2	18,5	31,4	1,6	8,0
PV 25	31,0	24,9	38,0	1,6	7,8
PV 32	38,0	32,0	46,0	1,6	9,5
PV 32A	38,0	32,0	46,0	3,0	11,0
PV 45	50,0	45,0	60,0	1,6	10,0



Rubber grommets, GH type

FEATURES & BENEFITS

- ☑ popular rubber grommets
- ☑ easy to use, low-cost cable protection



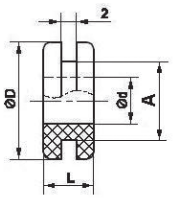
LOGISTIC DATA

Quantity in package [pcs]	100

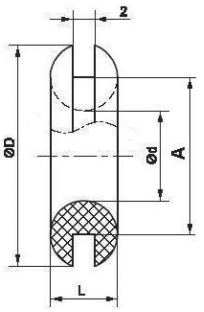
MECHANICAL DATA

Material	SBR+NR rubber
Halogen-free	yes
Colour	black (RAL 9004)
Operating temperature [°C]	-30 ÷ +85

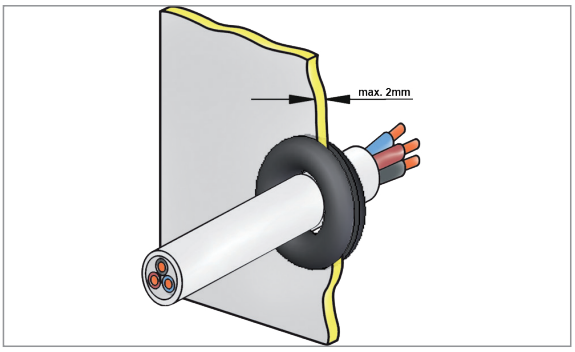
GH 6



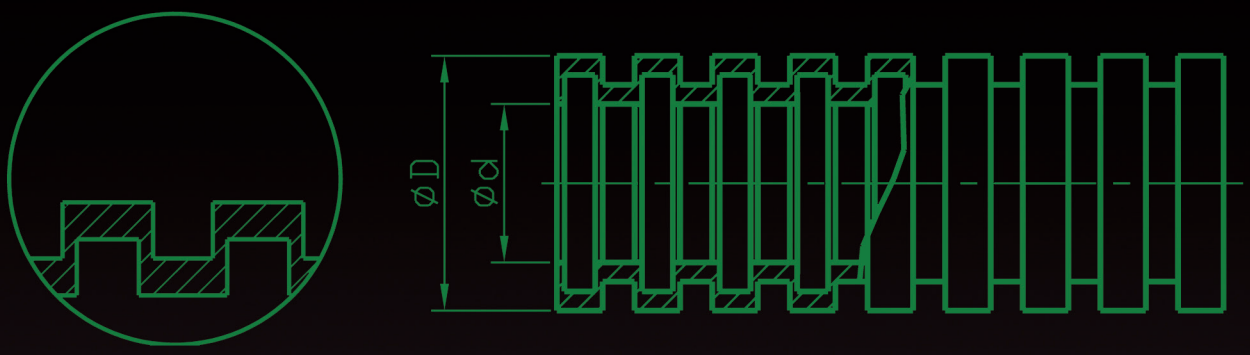
GH 7 - GH 29

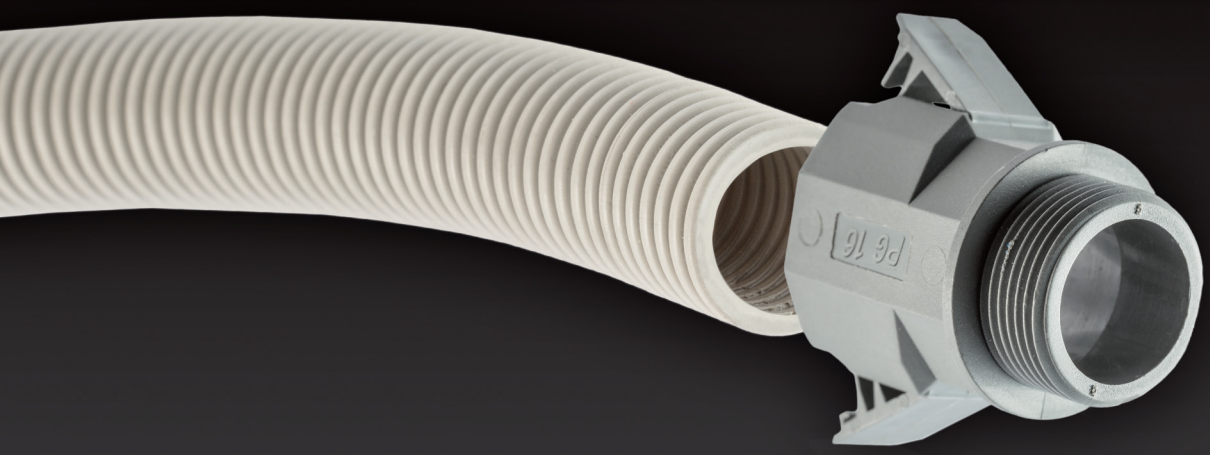


Type	A	D	d	L
GH 6	10,0	15	6,0	9,0
GH 7	13,0	20	8,0	6,5
GH 9	15,5	24	10,0	9,0
GH 11	21,0	28	13,5	9,0
GH 13	23,0	29	15,0	9,0
GH 16	25,0	31	16,0	9,0
GH 21	32,0	38	24,0	9,0
GH 29	38,0	45	30,0	10,0



ERGOM®





Protective pipes and fittings

Conduits - steel, stainless steel, steel + PVC

Flexible conduit made of galvanized steel, WO type	67
Flexible conduit made of stainless steel, WO...S type	68
Flexible protective conduit made of galvanized steel, PVC coated, WOT type	69

Accessories for steel conduits

Brass fitting, MWO; MWO...M type	71
Steel fitting for protective conduits, MWO...S type	72
Fitting, MWE...M type	73
Fitting, MWE...G type	74
Grounding insert, WE type	75
Insulating insert, WI type	75

Corrugated polyamide conduits

Standard corrugated protective conduit made of polyamide, WTE type	76
Light corrugated protective conduit made of polyamide, WTE...L type	77
Reinforced corrugated protective conduit made of polyamide, WTE...W type	78
Corrugated protective conduit made of polyamide for moving connections, WTE...R type	79

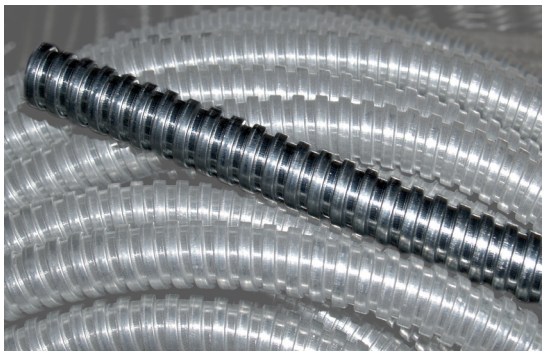
Accessories for corrugated polyamide conduits

Fitting, FD; FD...BK type	80
Fitting, FKD; FKD...BK type	81

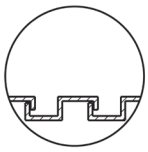
Flexible conduit made of galvanized steel, WO type

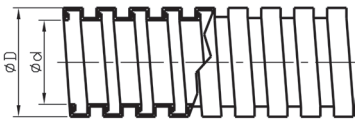
FEATURES & BENEFITS

- flexible steel conduits for cable and bundle protection
- sufficient degree of protection (IP) for operation in dry rooms
- high mechanical strength



Designed first of all for protection against mechanical damages. It protects wiring against short-time contact with hot water or steam piping, and even with open fire (but only against so-called “light touch”). Used with MWO and MWE glands.





CE

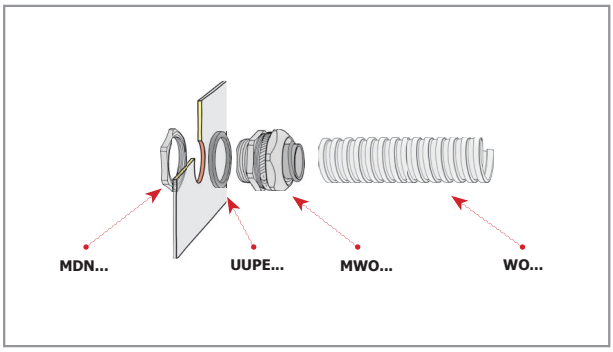
MECHANICAL DATA

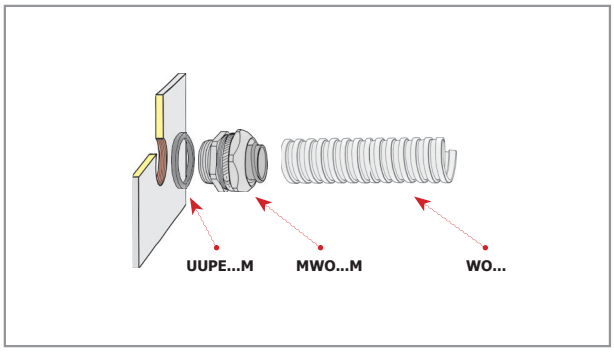
Material	galvanized steel
Halogen-free	yes
Operating temperature [°C]	-80 ÷ +300
Corrosion resistance	1 (low) EN 61386-1
Compression strength	4 (1250 N)

CERTIFICATES & STANDARDS

IP degree of protection	IP40, EN 60529
Standards	EN 61386-1; EN 61386-23

Type	d	D	Min. bending radius [mm]	Quantity in package [m]
WO 7	10	13	28	50
WO 9	11	15	34	50
WO 11	15	18	40	50
WO 13	17	20	45	50
WO 16	18	22	50	50
WO 21	24	28	63	25
WO 29	32	37	85	25
WO 36	41	47	100	15
WO 48	54	60	125	15
WO 63	63	70	150	10
WO 75	77	85	175	10
WO 100	100	109	225	10
WO 9/10	11	15	34	10
WO 7/10	10	13	28	10
WO 11/10	15	18	40	10
WO 13/10	17	20	45	10
WO 16/10	18	22	50	10
WO 21/10	24	28	63	10
WO 29/10	32	37	85	10
WO 36/5	41	47	100	5
WO 48/5	54	60	125	5

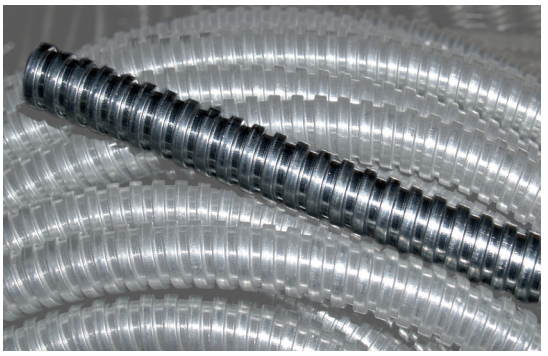




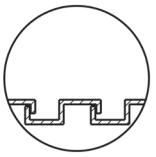
Flexible conduit made of stainless steel, WO...S type

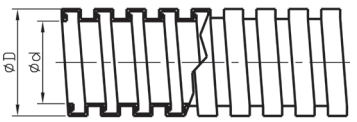
FEATURES & BENEFITS

- flexible stainless-steel conduits for cable and bundle protection
- sufficient degree of protection (IP) for operation in dry rooms
- high mechanical strength, resistance to difficult ambient conditions



Designed first of all for protection against mechanical damages. It protects wiring against short-time contact with hot water or steam piping, and even with open fire (but only against so-called “light touch”). It has high resistance to aggressive media occurring in industry. Used with MWD and MWD...S glands.





CE

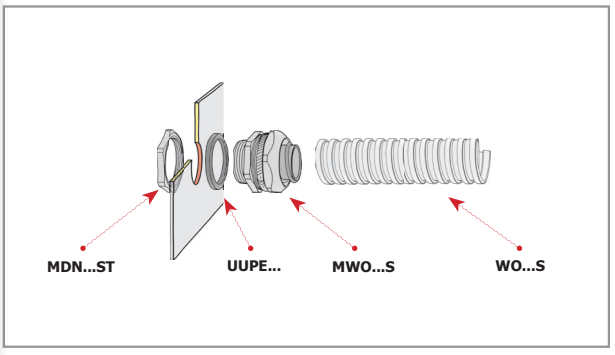
MECHANICAL DATA

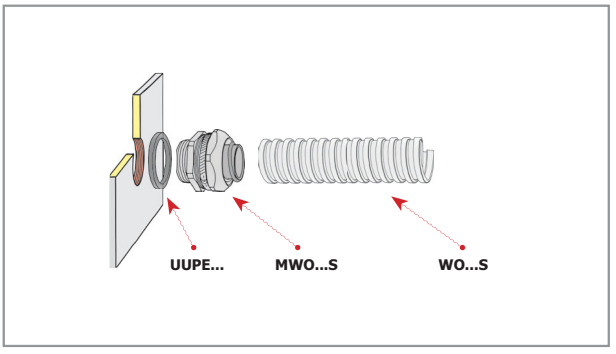
Material	304 AISI steel
Halogen-free	yes
Operating temperature [°C]	-80 ÷ +500
Corrosion resistance	4 (hight) EN61386-1
Compression strength	4 (1250 N)

CERTIFICATES & STANDARDS

IP degree of protection	IP40
Standards	EN 61386-1; EN 61386-23

Type	d	D	Min. bending radius [mm]	Quantity in package [m]
WO 7 S	10	13	28	50
WO 9 S	11	15	34	50
WO 11 S	15	18	40	50
WO 13 S	17	20	45	50
WO 16 S	18	22	50	50
WO 21 S	24	28	63	25
WO 29 S	32	37	85	25
WO 36 S	41	47	100	15
WO 48 S	54	60	125	15
WO 7/10 S	10	13	28	10
WO 9/10 S	11	15	34	10
WO 11/10 S	15	18	40	10
WO 13/10 S	17	20	45	10
WO 16/10 S	18	22	50	10
WO 21/10 S	24	28	63	10
WO 29/10 S	32	37	85	10
WO 36/5 S	41	47	100	5
WO 48/5 S	54	60	125	5



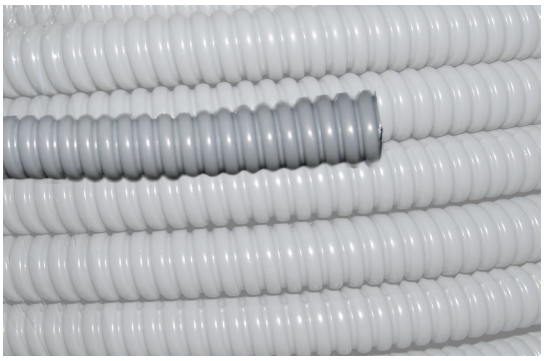


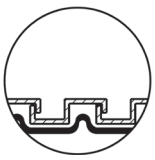
Flexible protective conduit made of galvanized steel, PVC coated, WOT type

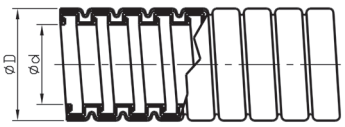
FEATURES & BENEFITS

- flexible steel PVC-coated conduits for cable and bundle protection
- together with dedicated fixtures, ensures IP66 degree of protection
- high mechanical strength, resistance to difficult ambient conditions

Resistant to the most aggressive media occurring in industry such as petrol, any kind of oil and grease, diluted acids and bases. Used with MWD and MWE...G glands.







MECHANICAL DATA

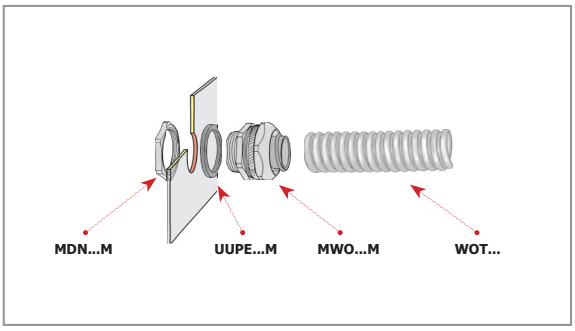
Material	galvanized steel + PVC
Operating temperature [°C]	-5 ÷ +80 (without moving: -20 ÷ +80)
Corrosion resistance	3 (average) EN61386-1
Compression strength	4 (1250 N)

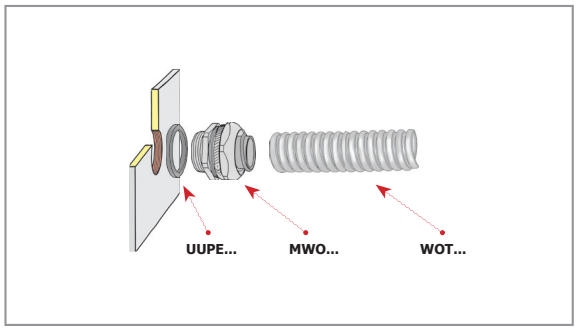
CERTIFICATES & STANDARDS

IP degree of protection	IP66
Standards	EN 61386-1; EN 61386-23

Type	d	D	Colour	Min. bending radius [mm]	Quantity in package [m]
WOT 7	9,4	13,0	grey	32	50
WOT 9	11,0	15,2	grey	40	50
WOT 11	14,0	18,6	grey	45	50
WOT 13	15,0	20,4	grey	52	50
WOT 16	17,0	22,5	grey	58	50
WOT 21	22,0	28,3	grey	72	25
WOT 29	30,0	37,0	grey	96	25
WOT 36	39,0	47,0	grey	118	15
WOT 48	50,0	60,0	grey	140	15
WOT 63	63,0	72,0	grey	200	10
WOT 75	78,0	88,0	grey	225	10
WOT 100	102,0	112,0	grey	275	10
WOT 7 BK	9,4	13,0	black	32	50
WOT 9 BK	11,0	15,2	black	40	50
WOT 11 BK	14,0	18,6	black	45	50
WOT 13 BK	15,0	20,4	black	52	50
WOT 16 BK	17,0	22,5	black	58	50
WOT 21 BK	22,0	28,3	black	72	25
WOT 29 BK	30,0	37,0	black	96	25
WOT 36 BK	39,0	47,0	black	118	15
WOT 48 BK	50,0	60,0	black	140	15
WOT 63 BK	63,0	72,0	black	200	10
WOT 75 BK	78,0	88,0	black	225	10
WOT 100 BK	102,0	112,0	black	275	10
WOT 7/10	9,4	13,0	grey	32	10
WOT 9/10	11,0	15,2	grey	40	10
WOT 11/10	14,0	18,6	grey	45	10
WOT 13/10	15,0	20,4	grey	52	10
WOT 16/10	17,0	22,5	grey	58	10
WOT 21/10	22,0	28,3	grey	72	10
WOT 29/10	30,0	37,0	grey	96	10
WOT 36/5	39,0	47,0	grey	118	5
WOT 48/5	50,0	60,0	grey	140	5
WOT 7/10 BK	9,4	12,5	black	32	10
WOT 9/10 BK	11,0	15,2	black	40	10

Type	d	D	Colour	Min. bending radius [mm]	Quantity in package [m]
WOT 11/10 BK	14,0	18,6	black	45	10
WOT 13/10 BK	15,0	20,4	black	52	10
WOT 16/10 BK	17,0	22,5	black	58	10
WOT 21/10 BK	22,0	28,3	black	72	10
WOT 29/10 BK	30,0	37,0	black	96	10
WOT 36/5 BK	39,0	47,0	black	118	5
WOT 48/5 BK	50,0	60,0	black	140	5





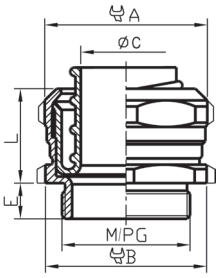
Brass fitting, MWO; MWO...M type

FEATURES & BENEFITS

- nickel-plated brass connectors for WO, WO...S and WOT conduits, standard industrial conditions
- to route cables protected by WO, WOT piping into enclosures
- together with WOT conduits, ensures IP66 degree of protection
- high mechanical and impact strength



Recommended for WO, WOT conduits.



MECHANICAL DATA

Material	nickel-plated brass + polyethylene insert
Halogen-free	yes
Operating temperature [°C]	-30 ÷ +80

CERTIFICATES & STANDARDS

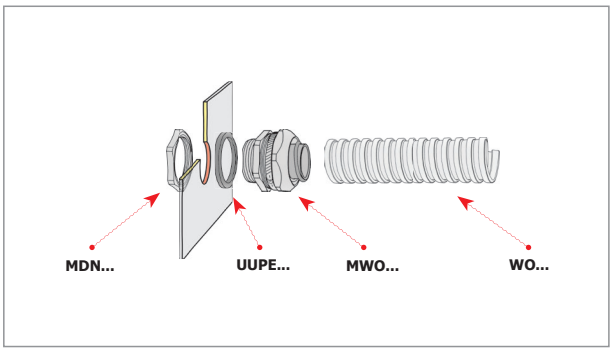
IP degree of protection	IP66

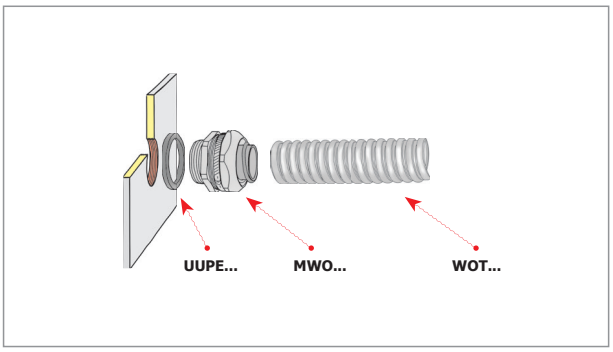
CE

NOTE!

MDN, MDN...M nuts and UUPE, UUPE ..M gland seals have to be ordered separately.

Type	For spanner A	For spanner B	L	C	E	M thread	PG thread	Tube type	Quantity in package [pcs]
MWO 7	19	17	10,00	7,5	6,0		P7	WO 7, WO 7 S, WOT 7	50 / 10
MWO 9	22	20	12,50	9,2	6,0		P9	WO 9, WO 9 S, WOT 9	50 / 10
MWO 11	26	24	15,70	11,9	7,0		P11	WO 11, WO 11 S, WOT 11	50 / 10
MWO 13	28	26	13,00	13,6	7,0		P13,5	WO 13, WO 13 S, WOT 13	50 / 10
MWO 16	30	28	14,00	15,3	8,0		P16	WO 16, WO 16 S, WOT 16	50 / 10
MWO 21	36	34	20,00	20,2	8,0		P21	WO 21, WO 21 S, WOT 21	10
MWO 29	47	45	13,50	26,7	10,0		P29	WO 29, WO 29 S, WOT 29	10
MWO 36	60	56	26,50	34,6	11,0		P36	WO 36, WO 36 S, WOT 36	1
MWO 48	74	70	33,00	45,3	15,0		P48	WO 48, WO 48 S, WOT 48	10 / 1
MWO 12M/7	19	17	10,20	7,5	6,0	M12x1,5		WO 7, WO 7 S, WOT 7	50 / 10
MWO 16M/9	22	20	12,50	9,2	6,0	M16x1,5		WO 9, WO 9 S, WOT 9	50 / 10
MWO 20M/11	26	24	13,00	11,9	7,0	M20x1,5		WO 11, WO 11 S, WOT 11	50 / 10
MWO 20M/13	28	26	15,70	13,6	7,0	M20x1,5		WO 13, WO 13 S, WOT 13	50 / 10
MWO 25M/16	30	28	14,00	15,3	8,0	M25x1,5		WO 16, WO 16 S, WOT 16	25 / 10
MWO 25M/21	36	34	20,48	20,2	8,0	M25x1,5		WO 21, WO 21 S, WOT 21	25 / 10
MWO 32M/21	36	36	16,50	20,2	8,0	M32x1,5		WO 21, WO 21 S, WOT 21	25 / 10
MWO 32M/29	47	45	22,90	26,7	8,0	M32x1,5		WO 29, WO 29 S, WOT 29	25 / 10
MWO 40M/29	47	45	19,50	26,7	10,0	M40x1,5		WO 29, WO 29 S, WOT 29	10 / 1
MWO 40M/36	60	56	26,00	34,6	8,5	M40x1,5		WO 36, WO 36 S, WOT 36	10 / 1
MWO 50M/36	60	58	26,00	34,6	11,0	M50x1,5		WO 36, WO 36 S, WOT 36	10 / 1
MWO 63M/48	74	70	32,50	45,3	15,0	M63x1,5		WO 48, WO 48 S, WOT 48	10 / 1





Steel fitting for protective conduits, MWO...S type

FEATURES & BENEFITS

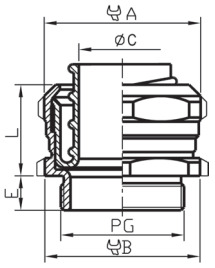
- stainless-steel connectors for WO...S conduits, standard industrial conditions
- to route cables protected by WOS, WOT piping into enclosures
- together with WOT conduits, ensures IP66 degree of protection
- high mechanical and impact strength, resistance to difficult ambient conditions



LOGISTIC DATA

Quantity in package [pcs]	1

Recommended for WO...S conduits. The tube is screwed into the gland.



MECHANICAL DATA

Material	staineless steel+ polyethylene insert
Halogen-free	yes
Operating temperature [°C]	-30 ÷ +80

CE

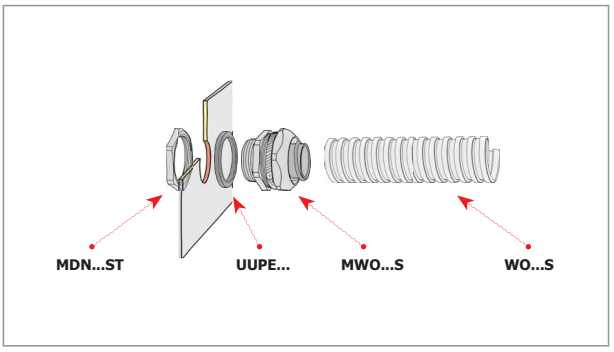
CERTIFICATES & STANDARDS

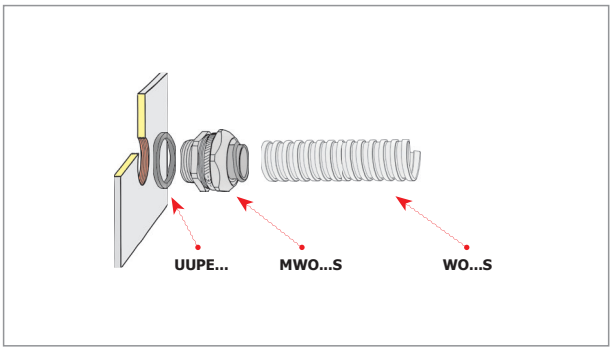
IP degree of protection	IP66

NOTE!

MDN...ST nuts and gland seals have to be ordered separately.

Type	For spanner A	For spanner B	L	C	E	PG thread
MWO 7S	19	17	10,0	7,5	6	P7
MWO 9S	22	20	12,5	9,2	6	P9
MWO 11S	27	24	13,0	11,9	7	P11
MWO 13S	29	26	13,0	13,6	7	P13,5
MWO 16S	30	28	14,0	15,3	7	P16
MWO 21S	36	34	16,5	20,2	8	P21
MWO 29S	47	45	19,5	26,7	8	P29
MWO 36S	60	56	26,5	34,6	10	P36
MWO 48S NFC	74	70	33,0	45,3	10	P48 NFC





Fitting, MWE...M type

FEATURES & BENEFITS

- protective pipe connectors, M thread
- for piping with very large diameters, up to 100 mm



LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

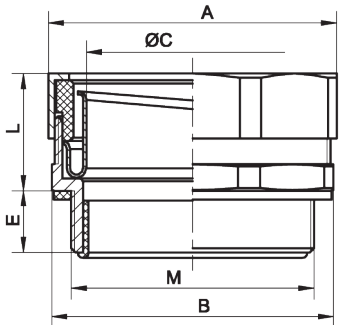
Material	body: zinc alloy; insert: galvanized steel; seal: rubber
Operating temperature [°C]	-30 ÷ +80

CERTIFICATES & STANDARDS

IP degree of protection	IP66

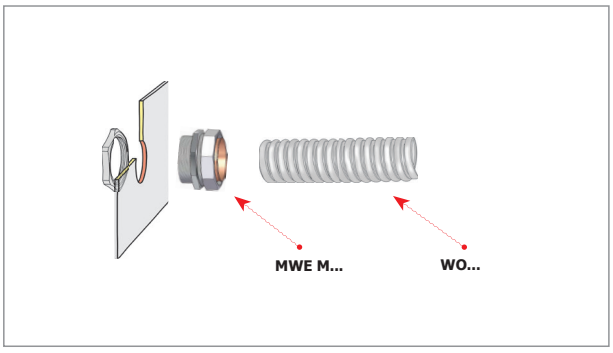
NOTE!

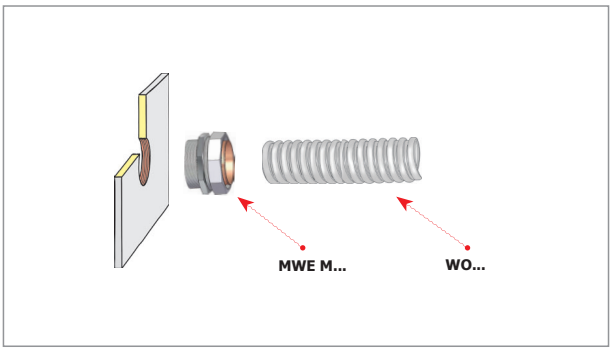
Set with sealing washer, without lock nut



CE

Type	For spanner A	For spanner B	L	C	E	M thread	Tube type
MWE 75M/63	88	86	40	60	22	M 75x1,5	WO 63, WOT 63
MWE 90M/75	106	102	44	74	23	M 90x2	WO 75, WOT 75

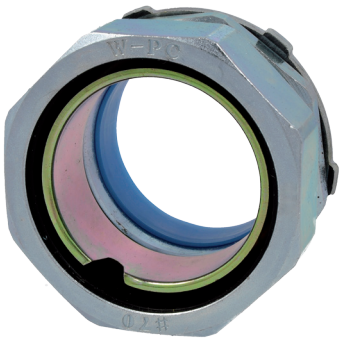




Fitting, MWE...G type

FEATURES & BENEFITS

- protective pipe connectors, G thread
- for piping with very large diameters, up to 100 mm

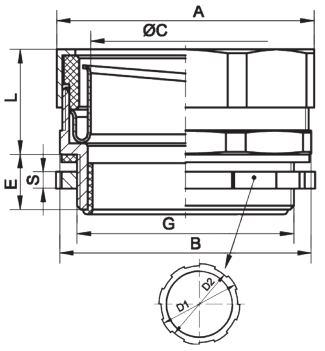


LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	body: zinc alloy; insert: galvanized steel; nut: galvanized steel (ST) or a zinc alloy (ZN); seal: rubber
Operating temperature [°C]	-30 ÷ +80



CERTIFICATES & STANDARDS

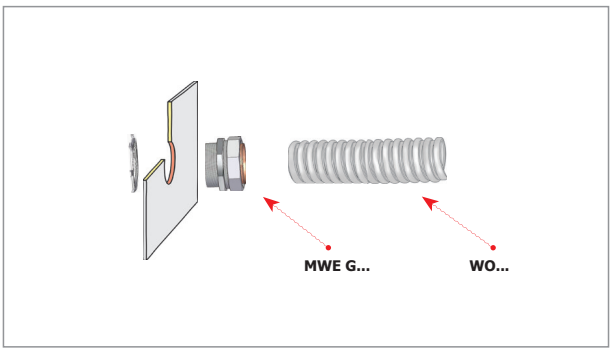
IP degree of protection	IP66

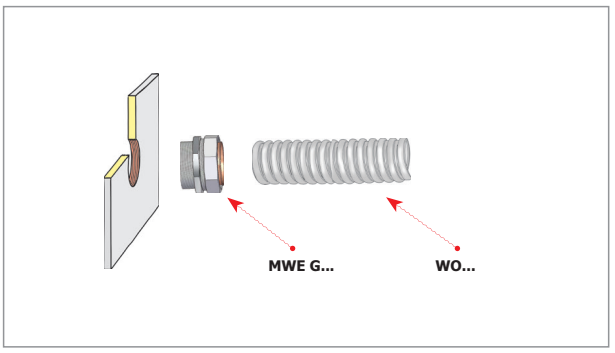
NOTE!

Set with lock nut and sealing washer.

CE

Type	For spanner A	For spanner B	L	C	E	D_1	D_2	S	G thread	Tube type
MWE G2 1/2"/63	88	86	40	60	22	94	88	4,5 (ST)	G 2 1/2"	WO 63, WOT 63
MWE G3"/75	106	102	44	74	23	106	101	4,5 (ST)	G 3"	WO 75, WOT 75
MWE G4"/100	133	130	50	96	28	134	128	10 (ZN)	G 4"	WO 100, WOT 100





Grounding insert, WE type

FEATURES & BENEFITS

- ensures galvanic connection of WO, WO.S and WOT conduits with MWO glands

Used when an electrical connect between the gland and conduit is required. The original insert must be removed from the gland and replaced with the grounding insert. The insert is delivered separately to be replaced by the customer.



MECHANICAL DATA

Material	brass+poliethylene
Halogen-free	yes
Operating temperature [°C]	-30 ÷ +80

NOTE!

WE inserts for MWO connectors with metric threads are selected WO, WOT conduits.

Type	Gland type	Quantity in package [pcs]
WE 7	MWO 7, MWO 12M/7, MWO 7 S	10
WE 9	MWO 9, MWO 16M/9, MWO 9 S	10
WE 11	MWO 11, MWO 20M/11, MWO 11 S	10
WE 13	MWO 13, MWO 20M/13, MWO 13 S	10
WE 16	MWO 16, MWO 25M/16, MWO 16 S	10
WE 21	MWO 21, MWO 25M/21, MWO 32M/21, MWO 21 S	10
WE 29	MWO 29, MWO 32M/29, MWO 40M/29, MWO 29 S	10
WE 36	MWO 36, MWO 40M/36, MWO 50M/36, MWO 36 S	1
WE 48	MWO 48, MWO 63M/48, MWO 48 S NFC	1

Insulating insert, WI type

FEATURES & BENEFITS

- inserts of MWO facilitating their reuse after disassembly

Spare part for the MWO, MWO...S gland.



MECHANICAL DATA

Material	polyethylene
Halogen-free	yes
Operating temperature [°C]	-30 ÷ +80

NOTE!

WE inserts for MWO connectors with metric threads are selected WO, WOT conduits.

Type	Gland type	Quantity in package [pcs]
WI 7	MWO 7, MWO 12M/7, MWO 7 S	50
WI 9	MWO 9, MWO 16M/9, MWO 9 S	50
WI 11	MWO 11, MWO 20M/11, MWO 11 S	50
WI 13	MWO 13, MWO 20M/13, MWO 13 S	50
WI 16	MWO 16, MWO 25M/16, MWO 16 S	50
WI 21	MWO 21, MWO 25M/21, MWO 32M/21, MWO 21 S	25
WI 29	MWO 29, MWO 32M/29, MWO 40M/29, MWO 29 S	25
WI 36	MWO 36, MWO 40M/36, MWO 50M/36, MWO 36 S	10
WI 48	MWO 48, MWO 63M/48, MWO 48 S NFC	10

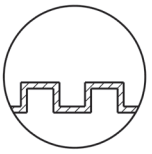
Standard corrugated protective conduit made of polyamide, WTE type

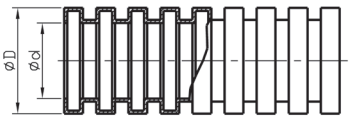
FEATURES & BENEFITS

- corrugated conduits for bundle protection
- for all environmental conditions, except for some concentrated chemical compounds
- together with dedicated fixtures, ensures IP40 - IP67 degree of protection
- medium mechanical strength



Used in aggressive atmospheres. Resistant to most aggressive media occurring in industry, such as petrol, oil, grease, diluted acids and bases. It can operate under marine climate conditions. Suitable for connections where occasional movements are required (several bends a day). Used with the glands: FD, FKD, SFD and SFKD, and with connectors: LRS, LT, LTR, LR i LTP.





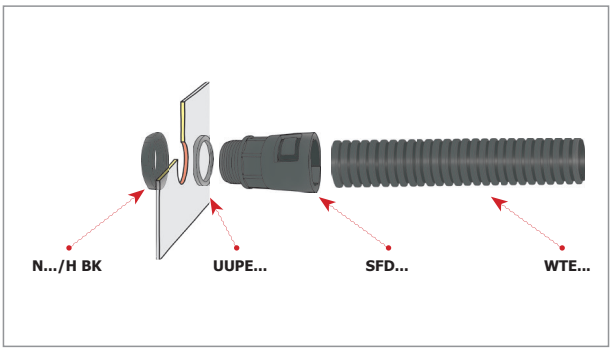
MECHANICAL DATA

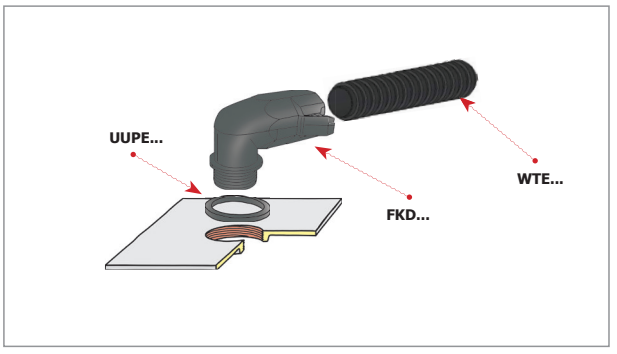
Material	polyamide 6
Halogen-free	yes
Operating temperature [°C]	-5 ÷ +90 (without moving: -40 ÷ +120)
Colour	black (RAL 9005)
Compression strength	350 N

CERTIFICATES & STANDARDS

IP degree of protection	IP67
Flammability class	EN 61386-1:2011 - flame retardant, UL 94 HB, halogen free
Standards	EN 61386-1:2222; EN 61386-23

Type	d	D	Min. bending radius [mm]	Quantity in package [m]
WTE 7	6,5	10,0	25	50
WTE 9	9,6	13,0	30	50
WTE 11	11,6	15,8	35	50
WTE 13	14,0	18,6	40	50
WTE 16	16,5	21,2	45	50
WTE 21	21,7	28,5	50	50
WTE 29	27,7	34,5	63	50
WTE 36	35,2	42,5	85	25
WTE 48	46,5	54,5	100	25



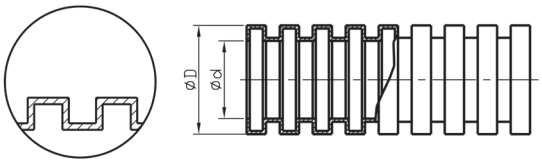


Light corrugated protective conduit made of polyamide, WTE...L type

FEATURES & BENEFITS

- corrugated conduits for bundle protection
- for all environmental conditions, except for some concentrated chemical compounds
- together with dedicated fixtures, ensures IP40 - IP68 degree of protection
- low mechanical strength





Used in aggressive atmospheres. Resistant to most aggressive media occurring in industry, such as petrol, oil, grease, diluted acids and bases. It can operate under marine climate conditions. Suitable for connections where occasional movements are required (several bends a day). Used with the glands: FD, FKD, SFD and SFKD, and with connectors: LRS, LT, LTR, LR i LTP.

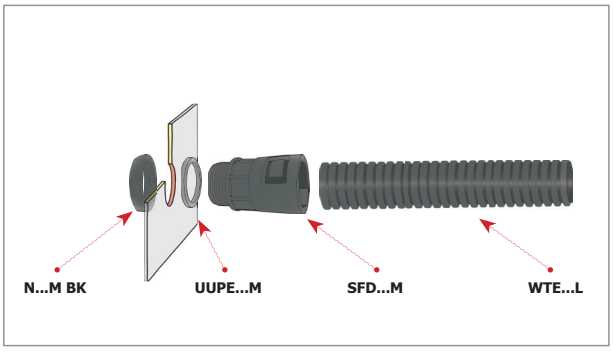
MECHANICAL DATA

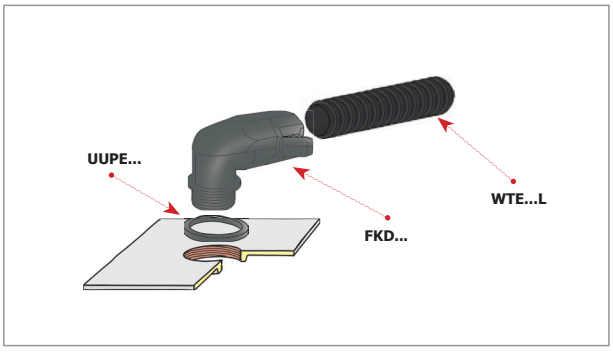
Material	polyamide 6
Halogen-free	yes
Operating temperature [°C]	-5 ÷ +90 (without moving: -40 ÷ +120)
Colour	black (RAL 9005)
Compression strength	200 N

CERTIFICATES & STANDARDS

IP degree of protection	IP67
Flammability class	EN 61386-1:2011 - flame retardant, UL 94 HB, halogen free
Standards	EN 61386-1:1122; EN 61386-23

Type	d	D	Min. bending radius [mm]	Quantity in package [m]
WTE 7L	6,7	10,0	20	50
WTE 9L	10,0	13,0	25	50
WTE 11L	11,9	15,8	35	50
WTE 13L	14,3	18,6	40	50
WTE 16L	16,8	21,2	45	50
WTE 21L	22,2	28,5	50	50
WTE 29L	27,9	34,5	60	50
WTE 36L	35,6	42,5	65	25
WTE 48L	46,9	54,5	75	25



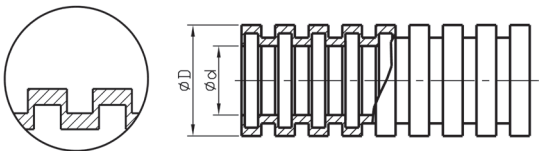


Reinforced corrugated protective conduit made of polyamide, WTE...W type

FEATURES & BENEFITS

- corrugated conduits for bundle protection
- for all environmental conditions, except for some concentrated chemical compounds
- together with dedicated fixtures, ensures IP40 - IP69 degree of protection
- high mechanical strength





Used in aggressive atmospheres. Resistant to the most aggressive media occurring in industry, such as petrol, oil, grease, diluted acids and bases. It can operate under marine climate conditions. Suitable for connections where occasional movements are required (several bends a day). Used with the glands: FD, FKD, SFD and SFKD, and with connectors: LRS, LT, LTR, LR i LTP. The product is CE marked.

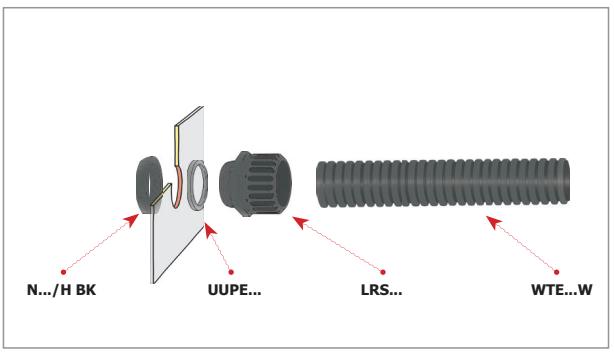
MECHANICAL DATA

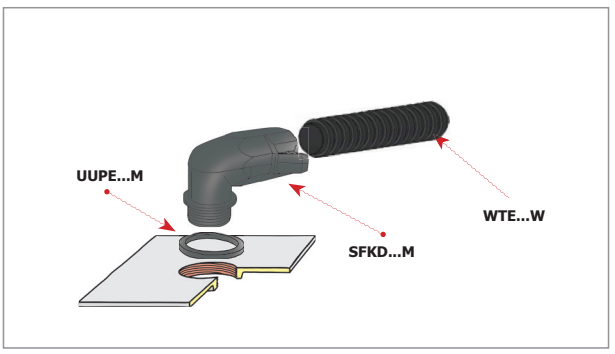
Material	polyamide 6
Halogen-free	yes
Operating temperature [°C]	-5 ÷ +90 (without moving: -40 ÷ +120)
Colour	black (RAL 9005)
Compression strength	600 N

CERTIFICATES & STANDARDS

IP degree of protection	IP67
Flammability class	EN 61386-1:2011 - flame retardant, UL 94 HB, halogen free
Standards	EN 61386-1:2222; EN 61386-23

Type	d	D	Min. bending radius [mm]	Quantity in package [m]
WTE 7W	6,2	10,0	25	50
WTE 9W	9,0	13,0	35	50
WTE 11W	11,3	15,8	45	50
WTE 13W	13,6	18,6	50	50
WTE 16W	15,9	21,2	60	50
WTE 21W	21,3	28,5	70	50
WTE 29W	26,8	34,5	75	50
WTE 36W	34,6	42,5	90	25
WTE 48W	46,0	54,5	95	25



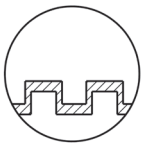


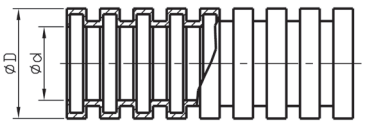
Corrugated protective conduit made of polyamide for moving connections, WTE...R type

FEATURES & BENEFITS

- corrugated conduits for cable bundle protection in movable connections
- for all environmental conditions, including low temperatures, except for some concentrated chemical compounds
- together with dedicated fixtures, ensures IP40 - IP67 degree of protection
- high mechanical strength







Used in aggressive atmospheres. Resistant to the most aggressive media occurring in industry, such as petrol, oil, grease, diluted acids and bases. It can operate under marine climate conditions. Suitable for connections where occasional movements are required (several bends a day). Used with the glands: FD, FKD, SFD and SFKD, and with connectors: LRS, LT, LTR, LR i LTP. The product is CE marked.

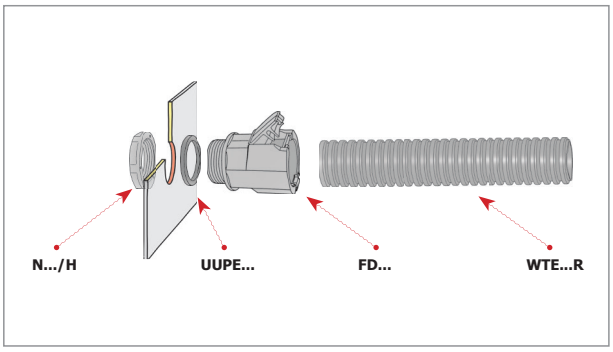
MECHANICAL DATA

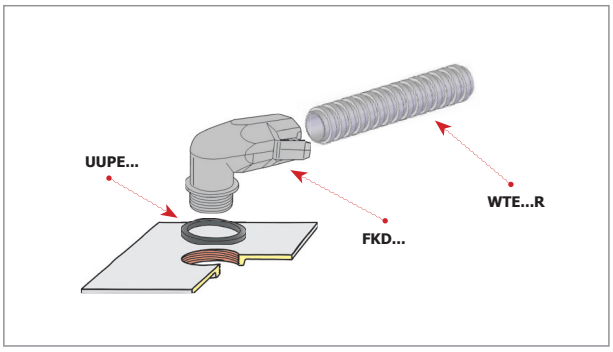
Material	polyamide 12
Halogen-free	yes
Operating temperature [°C]	-25 ÷ +85 (without movement: -50 ÷ +90)
Colour	grey RAL 7012
Compression strength	200 N

CERTIFICATES & STANDARDS

IP degree of protection	IP67
Flammability class	EN 61386-1:2011 - flame retardant, UL 94 V2, halogen free
Standards	EN 61386-1:1241; EN 61386-24

Type	d	D	Min. bending radius [mm]	Quantity in package [m]
WTE 7R	6,5	10,0	25	50
WTE 9R	9,9	13,0	30	50
WTE 11R	11,7	15,8	35	50
WTE 13R	14,0	18,6	40	50
WTE 16R	16,5	21,2	45	50
WTE 21R	21,7	28,5	50	50
WTE 29R	27,7	34,5	63	50
WTE 36R	35,2	42,5	85	25
WTE 48R	46,5	54,5	100	25

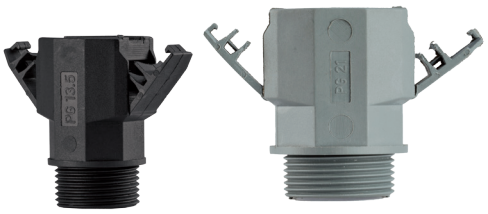




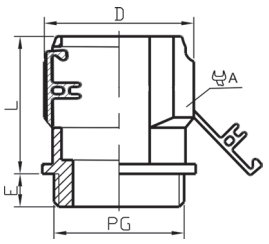
Fitting, FD; FD...BK type

FEATURES & BENEFITS

- connectors used to route WTE conduits into enclosures, PG threads
- repeated installation possible
- grey or black



Used for quick connecting WTE type corrugated conduits; easy assembly (by bending the wings)



MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +120
Colour	grey; black (BK)

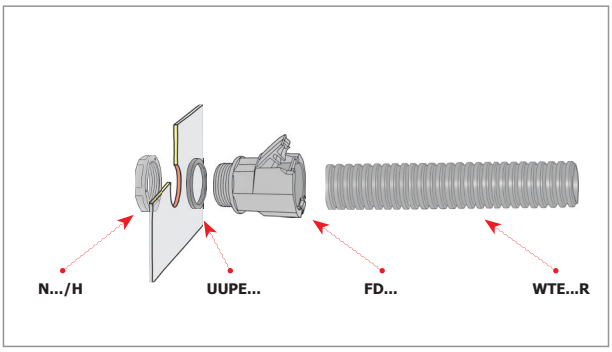
CERTIFICATES & STANDARDS

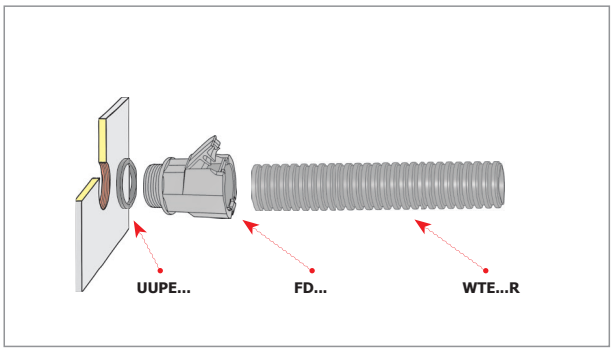
IP degree of protection	IP54

NOTE!

N../H, N../H BK nuts and UUPE gland seals have to be ordered separately.

Type	For spanner A	D	L	E	PG thread	Tube inside diameter [mm]	Tube outside diameter [mm]	Tube type	Quantity in package [pcs]
FD 7	13	18,2	29,0	10,0	P7	6,5	10,0	WTE 7, WTE 7L, WTE 7R, WTE 7W	10
FD 9	18	21,3	29,5	10,0	P9	9,6	13,0	WTE 9, WTE 9L, WTE 9R, WTE 9W	10
FD 11	19	24,0	30,5	10,0	P11	11,6	15,8	WTE 11, WTE 11L, WTE 11R, WTE 11W	10
FD 13	22	26,7	30,0	10,0	P13,5	14,0	18,6	WTE 13, WTE 13L, WTE 13R, WTE 13W	10
FD 16	26	29,7	30,5	10,0	P16	16,5	21,2	WTE 16, WTE 16L, WTE 16R, WTE 16W	10
FD 21	32	38,0	36,7	11,0	P21	21,7	28,5	WTE 21, WTE 21L, WTE 21R, WTE 21W	10
FD 29	40	45,2	41,8	12,0	P29	27,7	34,5	WTE 29, WTE 29L, WTE 29R, WTE 29W	10
FD 36	48,7-48,9	54,0	45,4	12,0	P36	35,2	42,5	WTE 36, WTE 36L, WTE 36R, WTE 36W	1
FD 48	63	71,1	49,9	18,7	P48	46,5	54,5	WTE 48, WTE 48L, WTE 48R, WTE 48W	1
FD 7 BK	13	18,2	29,0	10,0	P7	6,5	10,0	WTE 7, WTE 7L, WTE 7R, WTE 7W	10
FD 9 BK	18	21,3	29,5	10,0	P9	9,6	13,0	WTE 9, WTE 9L, WTE 9R, WTE 9W	10
FD 11 BK	19	24,0	30,5	10,0	P11	11,6	15,8	WTE 11, WTE 11L, WTE 11R, WTE 11W	10
FD 13 BK	22	26,7	30,0	10,0	P13,5	14,0	18,6	WTE 13, WTE 13L, WTE 13R, WTE 13W	10
FD 16 BK	26	29,7	30,5	10,0	P16	16,5	21,2	WTE 16, WTE 16L, WTE 16R, WTE 16W	10
FD 21 BK	32	38,0	36,7	11,0	P21	21,7	28,5	WTE 21, WTE 21L, WTE 21R, WTE 21W	10
FD 29 BK	40	45,2	41,8	12,0	P29	27,7	34,5	WTE 29, WTE 29L, WTE 29R, WTE 29W	10
FD 36 BK	48,7-48,9	54,0	45,4	12,0	P36	35,2	42,5	WTE 36, WTE 36L, WTE 36R, WTE 36W	1
FD 48 BK	63	71,1	49,9	18,7	P48	46,5	54,5	WTE 48, WTE 48L, WTE 48R, WTE 48W	1





Insulating fitting, FKD; FKD...BK type

FEATURES & BENEFITS

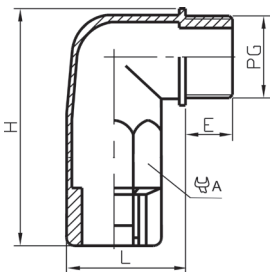
- connectors used to route WTE conduits into enclosures, PG threads
- repeated installation possible
- grey or black



Used for quick connecting WTE type conduits; easy disassembly (by bending the wings)

MECHANICAL DATA

Material	polyamide 6
Halogen-free	yes
Operating temperature [°C]	-40 ÷ +120
Colour	grey; black (BK)



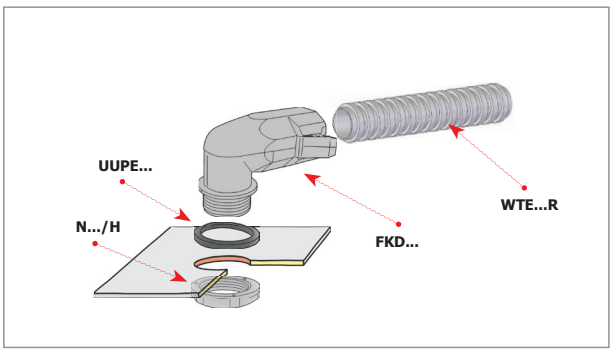
CERTIFICATES & STANDARDS

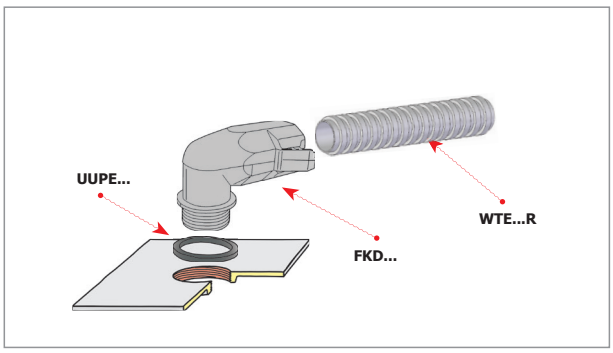
IP degree of protection	IP54

NOTE!

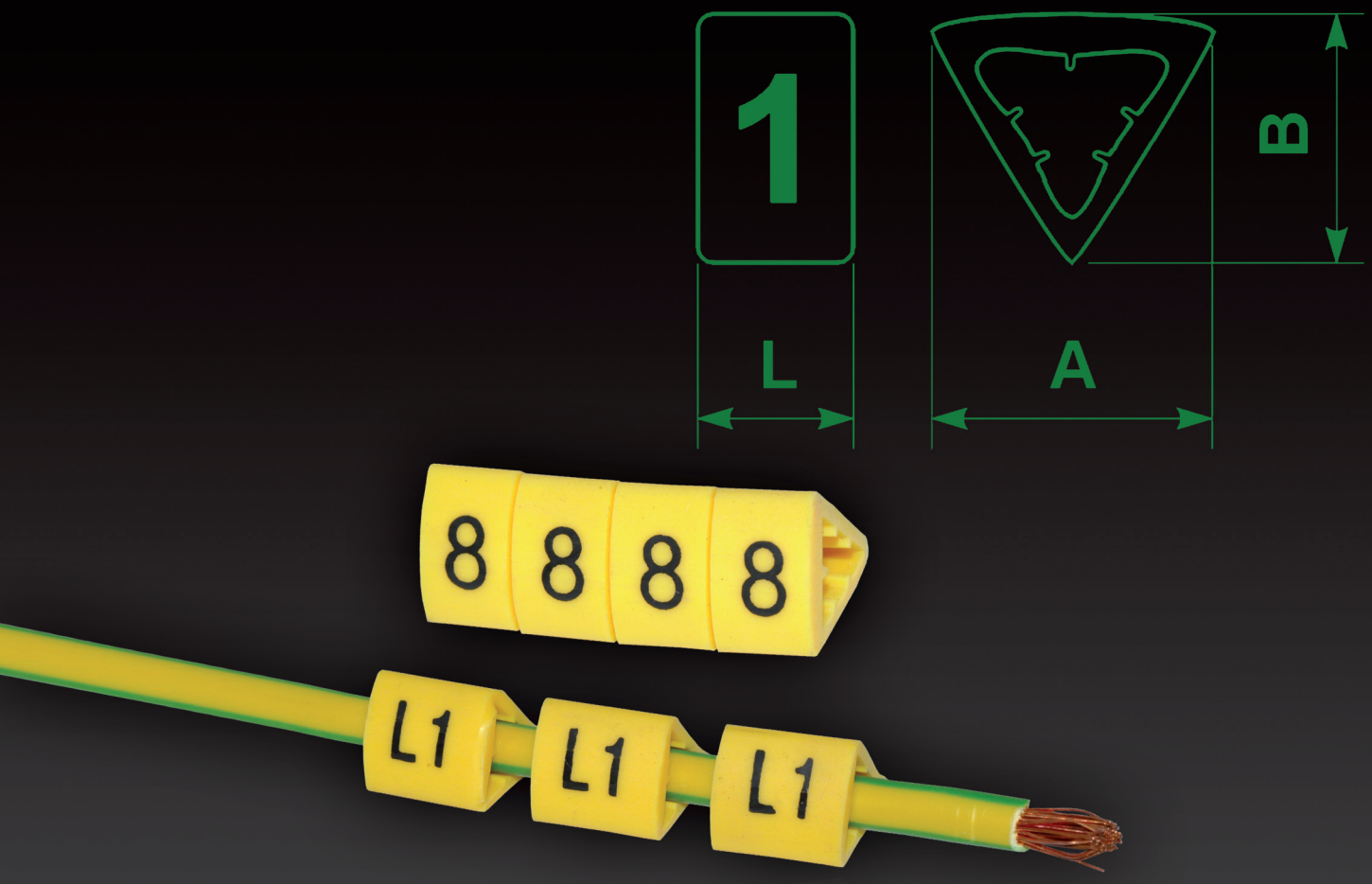
N../H, N../H BK nuts and UUPE gland seals have to be ordered separately.

Type	For spanner A	L	E	H	PG thread	Tube inside diameter [mm]	Tube outside diameter [mm]	Tube type	Quantity in package [pcs]
FKD 7	13	20,5	10	46,5	P7	6,5	10,0	WTE 7, WTE 7L, WTE 7R, WTE 7W	10
FKD 9	18	25,0	10	53,0	P9	9,6	13,0	WTE 9, WTE 9L, WTE 9R, WTE 9W	10
FKD 11	19	25,5	10	54,5	P11	11,6	15,8	WTE 11, WTE 11L, WTE 11R, WTE 11W	10
FKD 13	22	29,5	10	58,5	P13,5	14,0	18,6	WTE 13, WTE 13L, WTE 13R, WTE 13W	10
FKD 16	26	31,5	11	59,0	P16	16,5	21,2	WTE 16, WTE 16L, WTE 16R, WTE 16W	10
FKD 21	32	38,5	11	74,0	P21	21,7	28,5	WTE 21, WTE 21L, WTE 21R, WTE 21W	10
FKD 29	40	47,0	12	89,0	P29	27,7	34,5	WTE 29, WTE 29L, WTE 29R, WTE 29W	10
FKD 36	50	58,0	12	107,0	P36	35,2	42,5	WTE 36, WTE 36L, WTE 36R, WTE 36W	1
FKD 48	64	72,0	13	121,0	P48	46,5	54,5	WTE 48, WTE 48L, WTE 48R, WTE 48W	1
FKD 7 BK	13	20,5	10	46,5	P7	6,5	10,0	WTE 7, WTE 7L, WTE 7R, WTE 7W	10
FKD 9 BK	18	25,0	10	53,0	P9	9,6	13,0	WTE 9, WTE 9L, WTE 9R, WTE 9W	10
FKD 11 BK	19	25,5	10	54,5	P11	11,6	15,8	WTE 11, WTE 11L, WTE 11R, WTE 11W	10
FKD 13 BK	22	29,5	10	58,5	P13,5	14,0	18,6	WTE 13, WTE 13L, WTE 13R, WTE 13W	10
FKD 16 BK	26	31,5	11	59,0	P16	16,5	21,2	WTE 16, WTE 16L, WTE 16R, WTE 16W	10
FKD 21 BK	32	38,5	11	74,0	P21	21,7	28,5	WTE 21, WTE 21L, WTE 21R, WTE 21W	10
FKD 29 BK	40	47,0	12	89,0	P29	27,7	34,5	WTE 29, WTE 29L, WTE 29R, WTE 29W	10
FKD 36 BK	50	58,0	12	107,0	P36	35,2	42,5	WTE 36, WTE 36L, WTE 36R, WTE 36W	1
FKD 48 BK	64	72,0	13	121,0	P48	46,5	54,5	WTE 48, WTE 48L, WTE 48R, WTE 48W	1





ERGOM®



Markers

Wire markers

Markers, OZ-0	85
Markers, OZ-1	86
Markers, OZ-1/3	87
Markers, OZ-2	88
Markers, OZ-3	89
Markers, OZ-4	90
Markers, OZ-5	91
Markers, OZ-6	92
Markers, OW type	93
Markers ,OWN type	94
Steel markers, OWS type	94
Permanent waterproof markers	95

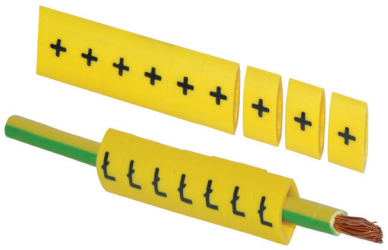
Self-adhesive markers

Self-adhesive markers, TS type	96

Markers, OZ-0

FEATURES & BENEFITS

- popular cable markers
- wide range of cable diameters: from 1,1 to 2,7 mm

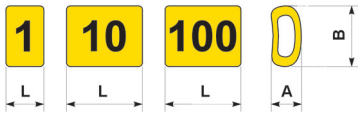


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	8

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	1,1÷2,7
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	3,6
B	6,2
L	5,8

NOTE!

Other overprints on request.

Type	Sign
OZ-0/”1”	-
OZ-0/”2”	2
OZ-0/”3”	3
OZ-0/”4”	-
OZ-0/”5”	5
OZ-0/”6”	6
OZ-0/”7”	7
OZ-0/”8”	8
OZ-0/”9”	9
OZ-0/”1”-”10”	1-10
OZ-0/”11”-”20”	11-20
OZ-0/”21”-”30”	21-30
OZ-0/”31”-”40”	31-40
OZ-0/”41”-”50”	41-50
OZ-0/”51”-”60”	51-60
OZ-0/”61”-”70”	61-70
OZ-0/”71”-”80”	71-80
OZ-0/”81”-”90”	81-90
OZ-0/”91”-”100”	91-100
OZ-0/”-”	-
OZ-0/”,”	,
OZ-0/”.”	.
OZ-0/”/”	/
OZ-0/”:”	:
OZ-0/”~”	~

Type	Sign
OZ-0/”+”	+
OZ-0/”=”	=
OZ-0/”·,”	·,
OZ-0/”A”	A
OZ-0/”B”	B
OZ-0/”C”	C
OZ-0/”D”	D
OZ-0/”E”	E
OZ-0/”F”	F
OZ-0/”G”	G
OZ-0/”H”	H
OZ-0/”I”	I
OZ-0/”J”	J
OZ-0/”K”	K
OZ-0/”L”	L
OZ-0/”L1”	L1
OZ-0/”L2”	L2
OZ-0/”L3”	L3
OZ-0/”Ł”	Ł
OZ-0/”M”	M
OZ-0/”N”	N
OZ-0/”O”	O
OZ-0/”P”	P
OZ-0/”Q”	Q
OZ-0/”R”	R

Type	Sign
OZ-0/”S”	S
OZ-0/”T”	T
OZ-0/”U”	U
OZ-0/”V”	V
OZ-0/”W”	W
OZ-0/”X”	X
OZ-0/”Y”	Y
OZ-0/”Z”	Z
OZ-0/BN	No overprint
OZ-0/UZ	UZ - earthing symbol
OZ-0/”PE”	PE
OZ-0/”PEN”	PEN

⏚ - **UZ**

Markers, OZ-1

FEATURES & BENEFITS

- popular cable markers
- wide range of cable diameters: from 2.5 to 3.5 mm

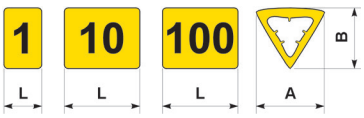


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	10

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	2,5÷3,5
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	5,6
B	6,6
L	5,8

NOTE!

Other overprints on request.

Type	Sign
OZ-1/"1"	-
OZ-1/"2"	2
OZ-1/"3"	3
OZ-1/"4"	-
OZ-1/"5"	5
OZ-1/"6"	6
OZ-1/"7"	7
OZ-1/"8"	8
OZ-1/"9"	9
OZ-1/"1"-"10"	1-10
OZ-1/"11"-"20"	11-20
OZ-1/"21"-"30"	21-30
OZ-1/"31"-"40"	31-40
OZ-1/"41"-"50"	41-50
OZ-1/"51"-"60"	51-60
OZ-1/"61"-"70"	61-70
OZ-1/"71"-"80"	71-80
OZ-1/"81"-"90"	81-90
OZ-1/"91"-"100"	91-100
OZ-1/"-"	-
OZ-1/","	,
OZ-1/"."	.
OZ-1/"/"	/
OZ-1/":"	:
OZ-1/"~"	~

Type	Sign
OZ-1/"+"	+
OZ-1/"="	=
OZ-1/"·,"	·,
OZ-1/"A"	A
OZ-1/"B"	B
OZ-1/"C"	C
OZ-1/"D"	D
OZ-1/"E"	E
OZ-1/"F"	F
OZ-1/"G"	G
OZ-1/"H"	H
OZ-1/"I"	I
OZ-1/"J"	J
OZ-1/"K"	K
OZ-1/"L"	L
OZ-1/"L1"	L1
OZ-1/"L2"	L2
OZ-1/"L3"	L3
OZ-1/"Ł"	Ł
OZ-1/"M"	M
OZ-1/"N"	N
OZ-1/"O"	O
OZ-1/"P"	P
OZ-1/"Q"	Q
OZ-1/"R"	R

Type	Sign
OZ-1/"S"	S
OZ-1/"T"	T
OZ-1/"U"	U
OZ-1/"V"	V
OZ-1/"W"	W
OZ-1/"X"	X
OZ-1/"Y"	Y
OZ-1/"Z"	Z
OZ-1/BN	No overprint
OZ-1/UZ	UZ - earthing symbol
OZ-1/"PE"	PE
OZ-1/"PEN"	PEN

⏚ - UZ

Markers, OZ-1/3

FEATURES & BENEFITS

- popular cable markers, smaller marker width
- wide range of cable diameters: from 1,1 to 2,7 mm

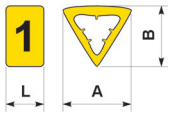


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	6

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	1,2÷3,5
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	5,6
B	6,6
L	3,0

NOTE!

Other overprints on request.

Type	Sign	Type	Sign	Type	Sign
OZ1/3/"1"	-	**OZ1/3/"="**	=	**OZ1/3/"N"**	N
OZ1/3/"2"	2	**OZ1/3/"·,"**	·,	**OZ1/3/"O"**	O
OZ1/3/"3"	3	**OZ1/3/"A"**	A	**OZ1/3/"P"**	P
OZ1/3/"4"	-	**OZ1/3/"B"**	B	**OZ1/3/"Q"**	Q
OZ1/3/"5"	5	**OZ1/3/"C"**	C	**OZ1/3/"R"**	R
OZ1/3/"6"	6	**OZ1/3/"D"**	D	**OZ1/3/"S"**	S
OZ1/3/"7"	7	**OZ1/3/"E"**	E	**OZ1/3/"T"**	T
OZ1/3/"8"	8	**OZ1/3/"F"**	F	**OZ1/3/"U"**	U
OZ1/3/"9"	9	**OZ1/3/"G"**	G	**OZ1/3/"V"**	V
OZ1/3/"-"	-	**OZ1/3/"H"**	H	**OZ1/3/"W"**	W
OZ1/3/","	,	**OZ1/3/"I"**	I	**OZ1/3/"X"**	X
OZ1/3/"."	.	**OZ1/3/"J"**	J	**OZ1/3/"Y"**	Y
OZ1/3/"/"	/	**OZ1/3/"K"**	K	**OZ1/3/"Z"**	Z
OZ1/3/":"	:	**OZ1/3/"L"**	L	**OZ1/3/BN**	No overprint
OZ1/3/"~"	~	**OZ1/3/"Ł"**	Ł	**OZ1/3/UZ**	UZ - earthing symbol
OZ1/3/"+"	+	**OZ1/3/"M"**	M		

⏚ - **UZ**

Markers, OZ-2

FEATURES & BENEFITS

- ☑ popular cable markers
- ☑ wide range of cable diameters: from 3.5 to 6.5 mm

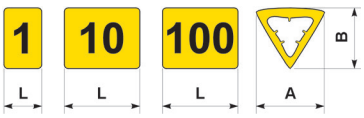


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	15

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	3,5÷6,5
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	8,2
B	10,3
L	5,8

NOTE!

Other overprints on request.

Type	Sign
OZ-2/"1"	-
OZ-2/"2"	2
OZ-2/"3"	3
OZ-2/"4"	-
OZ-2/"5"	5
OZ-2/"6"	6
OZ-2/"7"	7
OZ-2/"8"	8
OZ-2/"9"	9
OZ-2/"0"-"9"	0-9
OZ-2/"-"	-
OZ-2/","	,
OZ-2/"."	.
OZ-2/":"	:
OZ-2/"~"	~
OZ-2/"+"	+
OZ-2/"="	=
OZ-2/"·,"	·,

Type	Sign
OZ-2/"A"	A
OZ-2/"B"	B
OZ-2/"C"	C
OZ-2/"D"	D
OZ-2/"E"	E
OZ-2/"F"	F
OZ-2/"G"	G
OZ-2/"H"	H
OZ-2/"I"	I
OZ-2/"J"	J
OZ-2/"K"	K
OZ-2/"L"	L
OZ-2/"L1"	L1
OZ-2/"L2"	L2
OZ-2/"L3"	L3
OZ-2/"Ł"	Ł
OZ-2/"M"	M
OZ-2/"N"	N

Type	Sign
OZ-2/"O"	O
OZ-2/"P"	P
OZ-2/"Q"	Q
OZ-2/"R"	R
OZ-2/"S"	S
OZ-2/"T"	T
OZ-2/"U"	U
OZ-2/"V"	V
OZ-2/"W"	W
OZ-2/"X"	X
OZ-2/"Y"	Y
OZ-2/"Z"	Z
OZ-2/BN	No overprint
OZ-2/UZ	UZ - earthing symbol
OZ-2/"PE"	PE
OZ-2/"PEN"	PEN

⏚ - **UZ**

OZ-3 markers

FEATURES & BENEFITS

- popular cable markers
- wide range of cable diameters: from 6,0 to 10.5 mm

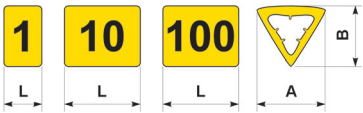


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	50

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	6,0÷10,5
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	10,8
B	13,8

NOTE!

Other overprints on request.

Type	L	Sign	Type	L	Sign	Type	L	Sign
OZ-3/"1"	5,8	-	**OZ-3/"A"**	5,8	A	**OZ-3/"N"**	5,8	N
OZ-3/"2"	5,8	2	**OZ-3/"B"**	5,8	B	**OZ-3/"O"**	5,8	O
OZ-3/"3"	5,8	3	**OZ-3/"C"**	5,8	C	**OZ-3/"P"**	5,8	P
OZ-3/"4"	5,8	-	**OZ-3/"D"**	5,8	D	**OZ-3/"Q"**	5,8	Q
OZ-3/"5"	5,8	5	**OZ-3/"E"**	5,8	E	**OZ-3/"R"**	5,8	R
OZ-3/"6"	5,8	6	**OZ-3/"F"**	5,8	F	**OZ-3/"S"**	5,8	S
OZ-3/"7"	5,8	7	**OZ-3/"G"**	5,8	G	**OZ-3/"T"**	5,8	T
OZ-3/"8"	5,8	8	**OZ-3/"H"**	5,8	H	**OZ-3/"U"**	5,8	U
OZ-3/"9"	5,8	9	**OZ-3/"I"**	5,8	I	**OZ-3/"V"**	5,8	V
OZ-3/"-"	5,8	-	**OZ-3/"J"**	5,8	J	**OZ-3/"W"**	5,8	W
OZ-3/","	5,8	,	**OZ-3/"K"**	5,8	K	**OZ-3/"X"**	5,8	X
OZ-3/"."	5,8	.	**OZ-3/"L"**	5,8	L	**OZ-3/"Y"**	5,8	Y
OZ-3/":"	5,8	:	**OZ-3/"L1"**	11,6	L1	**OZ-3/"Z"**	5,8	Z
OZ-3/"~"	5,8	~	**OZ-3/"L2"**	11,6	L2	**OZ-3/BN**	5,8	No overprint
OZ-3/"+"	5,8	+	**OZ-3/"L3"**	11,6	L3	**OZ-3/UZ**	5,8	UZ - earthing symbol
OZ-3/"="	5,8	=	**OZ-3/"Ł"**	5,8	Ł	**OZ-3/"PE"**	11,6	PE
OZ-3/"·,"	5,8	·,	**OZ-3/"M"**	5,8	M	**OZ-3/"PEN"**	11,6	PEN

⏚ - **UZ**

OZ-4 markers

FEATURES & BENEFITS

- ☑ popular wire and cable markers
- ☑ wide range of cable diameters: from 10,0 to 16,0 mm

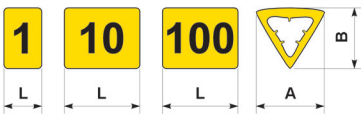


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	60

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	10,0÷16,0
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	16,7
B	23,4

NOTE!

Other overprints on request.

Type	L	Sign
OZ-4/"1"	5,8	-
OZ-4/"2"	5,8	2
OZ-4/"3"	5,8	3
OZ-4/"4"	5,8	-
OZ-4/"5"	5,8	5
OZ-4/"6"	5,8	6
OZ-4/"7"	5,8	7
OZ-4/"8"	5,8	8
OZ-4/"9"	5,8	9
OZ-4/"-"	5,8	-
OZ-4/"."	5,8	.
OZ-4/":"	5,8	:
OZ-4/"~"	5,8	~
OZ-4/"+"	5,8	+
OZ-4/"="	5,8	=
OZ-4/"A"	5,8	A
OZ-4/"B"	5,8	B

Type	L	Sign
OZ-4/"C"	5,8	C
OZ-4/"D"	5,8	D
OZ-4/"E"	5,8	E
OZ-4/"F"	5,8	F
OZ-4/"G"	5,8	G
OZ-4/"H"	5,8	H
OZ-4/"I"	5,8	I
OZ-4/"J"	5,8	J
OZ-4/"K"	5,8	K
OZ-4/"L"	5,8	L
OZ-4/"L1"	11,6	L1
OZ-4/"L2"	11,6	L2
OZ-4/"L3"	11,6	L3
OZ-4/"M"	5,8	M
OZ-4/"N"	5,8	N
OZ-4/"O"	5,8	O
OZ-4/"P"	5,8	P

Type	L	Sign
OZ-4/"Q"	5,8	Q
OZ-4/"R"	5,8	R
OZ-4/"S"	5,8	S
OZ-4/"T"	5,8	T
OZ-4/"U"	5,8	U
OZ-4/"V"	5,8	V
OZ-4/"W"	5,8	W
OZ-4/"X"	5,8	X
OZ-4/"Y"	5,8	Y
OZ-4/"Z"	5,8	Z
OZ-4/"Ł"	5,8	Ł
OZ-4/BN	5,8	No overprint
OZ-4/UZ	5,8	UZ - earthing symbol
OZ-4/"PE"	11,6	PE
OZ-4/"PEN"	11,6	PEN

⏚ - **UZ**

OZ-5 markers

FEATURES & BENEFITS

- popular wire and cable markers
- wide range of cable diameters: from 15,0 to 19,0 mm

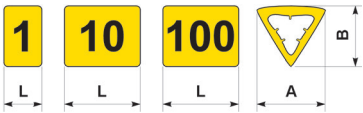


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	100

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	15,0÷19,0
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	23,4
B	30,0

NOTE!

Other overprints on request.

Type	L	Sign
OZ-5/"1"	5,8	-
OZ-5/"2"	5,8	2
OZ-5/"3"	5,8	3
OZ-5/"4"	5,8	-
OZ-5/"5"	5,8	5
OZ-5/"6"	5,8	6
OZ-5/"7"	5,8	7
OZ-5/"8"	5,8	8
OZ-5/"9"	5,8	9
OZ-5/"-"	5,8	-
OZ-5/"~"	5,8	~
OZ-5/"+"	5,8	+
OZ-5/"="	5,8	=
OZ-5/"A"	5,8	A
OZ-5/"B"	5,8	B
OZ-5/"C"	5,8	C

Type	L	Sign
OZ-5/"D"	5,8	D
OZ-5/"E"	5,8	E
OZ-5/"F"	5,8	F
OZ-5/"G"	5,8	G
OZ-5/"H"	5,8	H
OZ-5/"I"	5,8	I
OZ-5/"J"	5,8	J
OZ-5/"K"	5,8	K
OZ-5/"L"	5,8	L
OZ-5/"L1"	11,6	L1
OZ-5/"L2"	11,6	L2
OZ-5/"L3"	11,6	L3
OZ-5/"M"	5,8	M
OZ-5/"N"	5,8	N
OZ-5/"O"	5,8	O
OZ-5/"P"	5,8	P

Type	L	Sign
OZ-5/"Q"	5,8	Q
OZ-5/"R"	5,8	R
OZ-5/"S"	5,8	S
OZ-5/"T"	5,8	T
OZ-5/"U"	5,8	U
OZ-5/"V"	5,8	V
OZ-5/"W"	5,8	W
OZ-5/"X"	5,8	X
OZ-5/"Y"	5,8	Y
OZ-5/"Z"	5,8	Z
OZ-5/BN	5,8	No overprint
OZ-5/UZ	5,8	UZ - earthing symbol
OZ-5/"PE"	11,6	PE
OZ-5/"PEN"	11,6	PEN

⏚ - **UZ**

OZ-6 markers

FEATURES & BENEFITS

- ☑ popular wire and cable markers
- ☑ wide range of cable diameters: from 19,0 to 22,0 mm

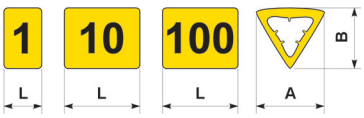


LOGISTIC DATA

Quantity in package [pcs]	100
Weight [g]	160

APPLICATION

For marking cables, wires, optical waveguides in switchgear, electrical systems



MECHANICAL DATA

Colour	yellow
Overprint colour	black
Cable external diameter [mm]	19,0÷22,0
Material	PCV
Operating temperature [°C]	-30 ÷ +70

DIMENSIONS

A	24,0
B	36,5

NOTE!

Other overprints on request.

Type	L	Sign
OZ-6/"1"	5,8	-
OZ-6/"2"	5,8	2
OZ-6/"3"	5,8	3
OZ-6/"4"	5,8	-
OZ-6/"5"	5,8	5
OZ-6/"6"	5,8	6
OZ-6/"7"	5,8	7
OZ-6/"8"	5,8	8
OZ-6/"9"	5,8	9
OZ-6/"-"	5,8	-
OZ-6/"+"	5,8	+
OZ-6/"A"	5,8	A
OZ-6/"B"	5,8	B
OZ-6/"C"	5,8	C
OZ-6/"D"	5,8	D

Type	L	Sign
OZ-6/"E"	5,8	E
OZ-6/"F"	5,8	F
OZ-6/"G"	5,8	G
OZ-6/"H"	5,8	H
OZ-6/"I"	5,8	I
OZ-6/"J"	5,8	J
OZ-6/"K"	5,8	K
OZ-6/"L"	5,8	L
OZ-6/"L1"	11,6	L1
OZ-6/"L2"	11,6	L2
OZ-6/"L3"	11,6	L3
OZ-6/"M"	5,8	M
OZ-6/"N"	5,8	N
OZ-6/"O"	5,8	O
OZ-6/"P"	5,8	P

Type	L	Sign
OZ-6/"Q"	5,8	Q
OZ-6/"R"	5,8	R
OZ-6/"S"	5,8	S
OZ-6/"T"	5,8	T
OZ-6/"U"	5,8	U
OZ-6/"V"	5,8	V
OZ-6/"W"	5,8	W
OZ-6/"X"	5,8	X
OZ-6/"Y"	5,8	Y
OZ-6/"Z"	5,8	Z
OZ-6/BN	5,8	No overprint
OZ-6/UZ	5,8	UZ - earthing symbol
OZ-6/"PE"	5,8	PE
OZ-6/"PEN"	5,8	PEN

⏚ - **UZ**

Markers, OW type

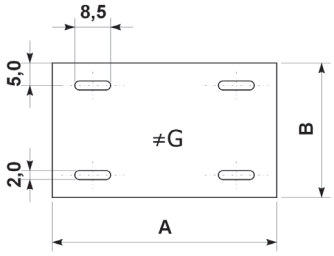
FEATURES & BENEFITS

- flexible markers to be fixed on bundles or cables with cable ties
- large surface for inscriptions
- description with felt-tip pen possible

LOGISTIC DATA

Quantity in package [pcs]	100

Attaching to bundles with TK or TY cable tie
Manual description with PC PN felt-tip pen



MECHANICAL DATA

Colour	white
Material	PVC, resistant to typical solvents, grease, oil, sea water, mould, long-lasting staying in the ground
Operating temperature [°C]	-20 ÷ +70
Colour	white

DIMENSIONS

G	0,5

Type	A	B
OW 1	45	20
OW 11	100	20
OW 12	150	20
OW 2	150	60
OW 21	100	60

Markers, OWN type

FEATURES & BENEFITS

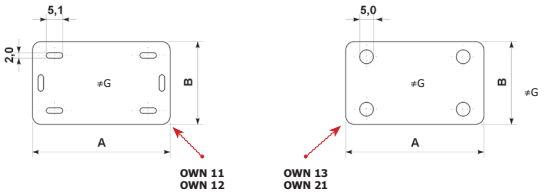
- inflexible markers to be fixed on bundles or cables with cable ties
- large surface for inscriptions



LOGISTIC DATA

Quantity in package [pcs]	100

Fixing to bundles by means of the TK or TY tape.
Manual description or thermal overprint - services can be ordered at Ergom.



MECHANICAL DATA

Colour	white
Material	polyamide 6.6
Operating temperature [°C]	-30 ÷ +90
Colour	white

Type	A	B	G
OWN 11	40	20	1,2
OWN 12	60	25	1,2
OWN 13	60	50	1,3
OWN 21	65	19	0,4

OWS type steel markers

FEATURES & BENEFITS

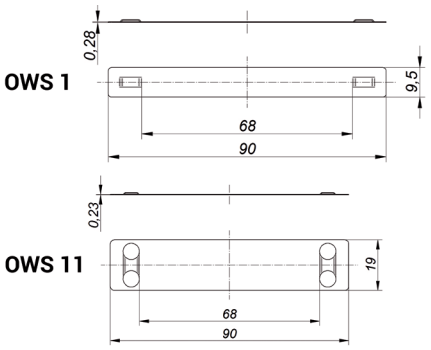
- stainless steel marker to be fixed on bundles or cables with cable ties
- large surface for inscriptions
- can be inscribed with laser — we perform such services



LOGISTIC DATA

Quantity in package [pcs]	100

Fitting to bundles – with tape, steel TSB...5 or TSB.../5-304.
Making permanent inscriptions by:
- laser, the service can be ordered at Ergom
- moulding.



MECHANICAL DATA

Material	stainless steel 316 type according to AISI/ASTM
Operating temperature [°C]	-80 ÷ +300

Type
OWS 1
OWS 11

Permanent waterproof markers

FEATURES & BENEFITS

- felt-tip pens for numerous types of manually described markers
- 4 line thickness values
- various colours available
- inscriptions resistant to abrasion and weather conditions



PC, PD, PN, PG type markers are specially designed for placing descriptions of electrical installation for many years. PLC a true all-rounder. It comes with a permanent dye and slight smell and ensures coverage similar to a lacquer. It is a perfect solution for dark, smooth and transparent surfaces such as glass, plastics and metal as well as for porous surfaces, i.e. wood. Available in 5 colour versions.

APPLICATION

For individual marking with different line widths and colours on almost all surfaces.

Type	Colour	Line thickness	Quantity in package [pcs]
PC-S	black	0,3	10
PC-R	red	0,3	10
PC-G	green	0,3	10
PD-S	black	0,5	5
PD-R	red	0,5	5
PD-G	green	0,5	5
PN-S	black	1	10
PN-R	red	1	10
PN-G	green	1	10
PG-S	black	1,0÷3,0	10
PG-R	red	1,0÷3,0	10
PG-G	green	1,0÷3,0	10
PLC-YL	yellow	1,0÷2,0	5

Markers, TS type

FEATURES & BENEFITS

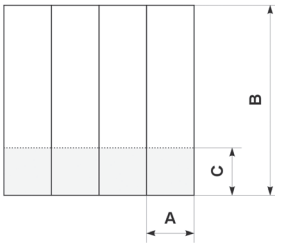
- popular marker made of transparent PVC film, with description field at the end (various colour versions available)
- description with felt-tip pen possible
- mounting on cable by wrapping or making “flag”
- low-cost, practical solution



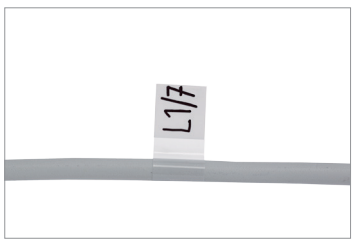
In a form of a self-adhesive transparent PVC film strip with description field on one end. Inscriptions are made manually, e.g. with felt-tip pen.

MECHANICAL DATA

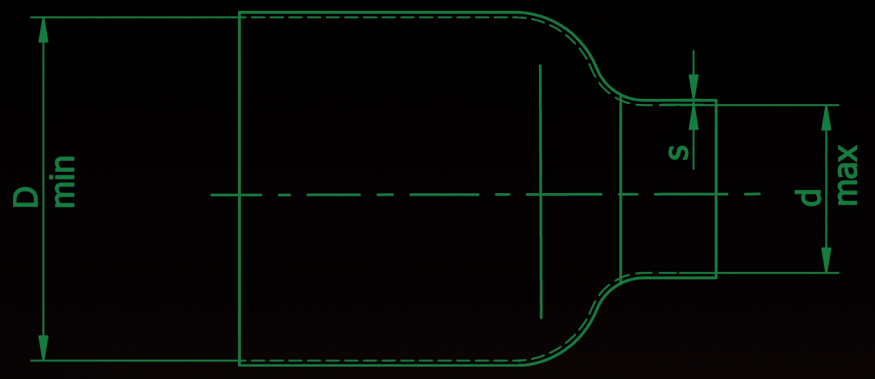
Colour	white
No. of plates in packaging [pcs]	10
Material	self-adhesive PVC foil
Operating temperature [°C]	-30 ÷ +70

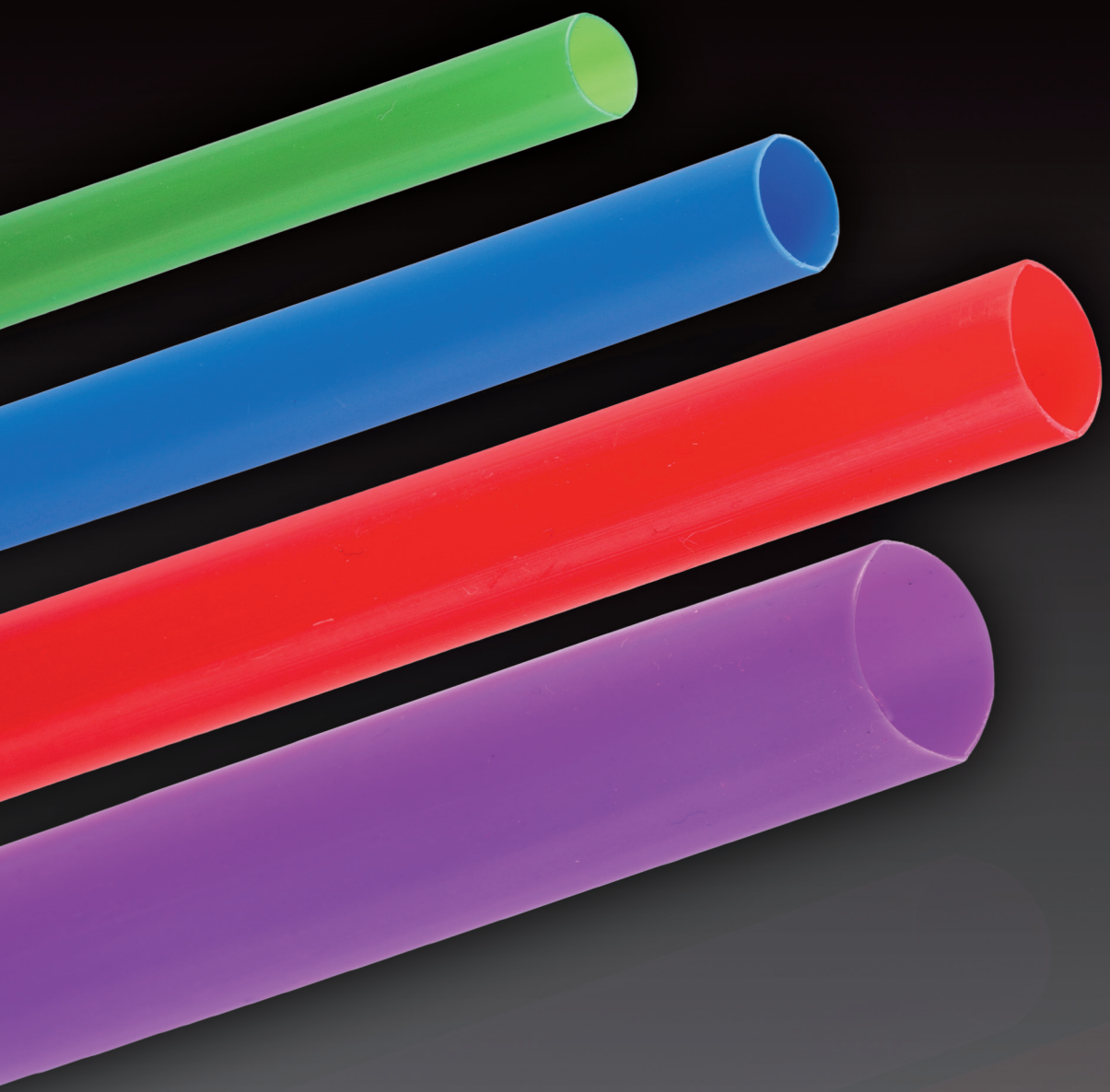


Type	Max. cable diameter [mm]	A	B	C	Quantity in package [pcs]
TS 0	2,5÷3,5	7,5	20,0	5,0	910
TS 1	2,5÷3,5	15,0	20,0	5,0	450
TS 12	3,0÷5,0	15,0	30,0	7,5	270
TS 2	3,5÷7,5	20,0	40,0	10,0	150
TS 22	3,5÷7,5	10,0	40,0	10,0	280
TS 3	6,0÷12	20,0	50,0	15,0	100
TS 5	12÷20	25,0	100,0	25,0	50
TS 51	15÷22	50,0	110,0	35,0	20
TS 6	18÷25	25,0	120,0	25,0	40
TS 61	20÷28	50,0	140,0	35,0	20



ERGOM®





Electro-insulating materials

Heat-shrink materials

Heat-shrink tubes, TCR type	99
Heat-shrink thin-walled flexible hoses, TCREL type	102
Heat-shrink thin-walled flexible hoses in rolls, TCREL BOX type	103
TGR, TGRK heat-shrink tubes	104
Heat-shrink caps, TZK	105
Heat-shrink breakouts, PT	106

Insulating materials

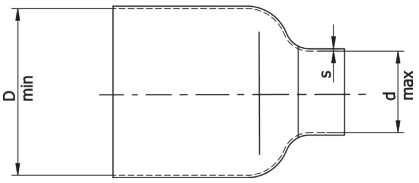
OSKS insulating tubes	107
OSKS/1 insulating tubes	108
PVC insulating tubes	109

Heat-shrink tubes, TCR

FEATURES & BENEFITS

- popular thin-walled heat-shrink conduits with good insulating properties, in 1 m long sections
- recommended for dry environment applications
- very wide range of sizes and colours





MECHANICAL DATA

Material	cross linked polyolefin
Halogen-free	yes
Recommended shrinking temperature [°C]	100 ÷ 125
Operating temperature [°C]	-30 ÷ +105
Shrinkage factor	2:1 4:1 for 4/1; 8/2 sizes

ELECTRICAL DATA

Breakdown strength [kV/mm]	12

DIMENSIONS

Length [m]	1

NOTE!

Coiled heat-shrink sleeves - on request

Type	Colour	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]	Quantity in package [pcs]
TCR 1,6/0,8 BK	black	1,6	0,8	0,43	10
TCR 1,6/0,8 BL	blue	1,6	0,8	0,43	10
TCR 1,6/0,8 BR	brown	1,6	0,8	0,43	10
TCR 1,6/0,8 CL	transparent	1,6	0,8	0,43	10
TCR 1,6/0,8 GR	green	1,6	0,8	0,43	10
TCR 1,6/0,8 RD	red	1,6	0,8	0,43	10
TCR 1,6/0,8 VL	violet	1,6	0,8	0,43	10
TCR 1,6/0,8 WT	white	1,6	0,8	0,43	10
TCR 1,6/0,8 YL	yellow	1,6	0,8	0,43	10
TCR 1,6/0,8 YL-GR	yellow-green	1,6	0,8	0,43	10
TCR 2,4/1,2 BK	black	2,4	1,2	0,51	10
TCR 2,4/1,2 BL	blue	2,4	1,2	0,51	10
TCR 2,4/1,2 BR	brown	2,4	1,2	0,51	10
TCR 2,4/1,2 CL	transparent	2,4	1,2	0,51	10
TCR 2,4/1,2 GR	green	2,4	1,2	0,51	10
TCR 2,4/1,2 RD	red	2,4	1,2	0,51	10
TCR 2,4/1,2 VL	violet	2,4	1,2	0,51	10
TCR 2,4/1,2 WT	white	2,4	1,2	0,51	10
TCR 2,4/1,2 YL	yellow	2,4	1,2	0,51	10
TCR 2,4/1,2 YL-GR	yellow-green	2,4	1,2	0,51	10
TCR 3,2/1,6 BK	black	3,2	1,6	0,51	10
TCR 3,2/1,6 BL	blue	3,2	1,6	0,51	10
TCR 3,2/1,6 BR	brown	3,2	1,6	0,51	10
TCR 3,2/1,6 CL	transparent	3,2	1,6	0,51	10
TCR 3,2/1,6 GR	green	3,2	1,6	0,51	10
TCR 3,2/1,6 RD	red	3,2	1,6	0,51	10
TCR 3,2/1,6 VL	violet	3,2	1,6	0,51	10
TCR 3,2/1,6 WT	white	3,2	1,6	0,51	10
TCR 3,2/1,6 YL	yellow	3,2	1,6	0,51	10

Type	Colour	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]	Quantity in package [pcs]
TCR 3,2/1,6 YL-GR	yellow-green	3,2	1,6	0,51	10
TCR 4/1 BK	black	4,0	1,0	1,00	10
TCR 4/1 BL	blue	4,0	1,0	1,00	10
TCR 4/1 BR	brown	4,0	1,0	1,00	10
TCR 4/1 CL	transparent	4,0	1,0	1,00	10
TCR 4/1 GR	green	4,0	1,0	1,00	10
TCR 4/1 RD	red	4,0	1,0	1,00	10
TCR 4/1 VL	violet	4,0	1,0	1,00	10
TCR 4/1 WT	white	4,0	1,0	1,00	10
TCR 4/1 YL	yellow	4,0	1,0	1,00	10
TCR 4/1 YL-GR	yellow-green	4,0	1,0	1,00	10
TCR 4,8/2,4 BK	black	4,8	2,4	0,51	10
TCR 4,8/2,4 BL	blue	4,8	2,4	0,51	10
TCR 4,8/2,4 BR	brown	4,8	2,4	0,51	10
TCR 4,8/2,4 CL	transparent	4,8	2,4	0,51	10
TCR 4,8/2,4 GR	green	4,8	2,4	0,51	10
TCR 4,8/2,4 RD	red	4,8	2,4	0,51	10
TCR 4,8/2,4 VL	violet	4,8	2,4	0,51	10
TCR 4,8/2,4 WT	white	4,8	2,4	0,51	10
TCR 4,8/2,4 YL	yellow	4,8	2,4	0,51	10
TCR 4,8/2,4 YL-GR	yellow-green	4,8	2,4	0,51	10
TCR 6,4/3,2 BK	black	6,4	3,2	0,64	10
TCR 6,4/3,2 BL	blue	6,4	3,2	0,64	10
TCR 6,4/3,2 BR	brown	6,4	3,2	0,64	10
TCR 6,4/3,2 CL	transparent	6,4	3,2	0,64	10
TCR 6,4/3,2 GR	green	6,4	3,2	0,64	10
TCR 6,4/3,2 RD	red	6,4	3,2	0,64	10
TCR 6,4/3,2 VL	violet	6,4	3,2	0,64	10
TCR 6,4/3,2 WT	white	6,4	3,2	0,64	10
TCR 6,4/3,2 YL	yellow	6,4	3,2	0,64	10
TCR 6,4/3,2 YL-GR	yellow-green	6,4	3,2	0,64	10
TCR 8/2 BK	black	8,0	2,0	1,00	10
TCR 8/2 BL	blue	8,0	2,0	1,00	10
TCR 8/2 BR	brown	8,0	2,0	1,00	10
TCR 8/2 CL	transparent	8,0	2,0	1,00	10
TCR 8/2 GR	green	8,0	2,0	1,00	10
TCR 8/2 RD	red	8,0	2,0	1,00	10
TCR 8/2 VL	violet	8,0	2,0	1,00	10
TCR 8/2 WT	white	8,0	2,0	1,00	10
TCR 8/2 YL	yellow	8,0	2,0	1,00	10
TCR 8/2 YL-GR	yellow-green	8,0	2,0	1,00	10
TCR 9,5/4,8 BK	black	9,5	4,8	0,64	10
TCR 9,5/4,8 BL	blue	9,5	4,8	0,64	10
TCR 9,5/4,8 BR	brown	9,5	4,8	0,64	10
TCR 9,5/4,8 CL	transparent	9,5	4,8	0,64	10
TCR 9,5/4,8 GR	green	9,5	4,8	0,64	10
TCR 9,5/4,8 RD	red	9,5	4,8	0,64	10
TCR 9,5/4,8 VL	violet	9,5	4,8	0,64	10
TCR 9,5/4,8 WT	white	9,5	4,8	0,64	10
TCR 9,5/4,8 YL	yellow	9,5	4,8	0,64	10
TCR 9,5/4,8 YL-GR	yellow-green	9,5	4,8	0,64	10
TCR 12,7/6,4 BK	black	12,7	6,4	0,64	10
TCR 12,7/6,4 BL	blue	12,7	6,4	0,64	10
TCR 12,7/6,4 BR	brown	12,7	6,4	0,64	10
TCR 12,7/6,4 CL	transparent	12,7	6,4	0,64	10
TCR 12,7/6,4 GR	green	12,7	6,4	0,64	10
TCR 12,7/6,4 RD	red	12,7	6,4	0,64	10
TCR 12,7/6,4 VL	violet	12,7	6,4	0,64	10
TCR 12,7/6,4 WT	white	12,7	6,4	0,64	10
TCR 12,7/6,4 YL	yellow	12,7	6,4	0,64	10
TCR 12,7/6,4 YL-GR	yellow-green	12,7	6,4	0,64	10
TCR 19/9,5 BK	black	19,0	9,5	0,76	5
TCR 19/9,5 BL	blue	19,0	9,5	0,76	5
TCR 19/9,5 BR	brown	19,0	9,5	0,76	5

Type	Colour	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]	Quantity in package [pcs]
TCR 19/9,5 CL	transparent	19,0	9,5	0,76	5
TCR 19/9,5 GR	green	19,0	9,5	0,76	5
TCR 19/9,5 RD	red	19,0	9,5	0,76	5
TCR 19/9,5 VL	violet	19,0	9,5	0,76	5
TCR 19/9,5 WT	white	19,0	9,5	0,76	5
TCR 19/9,5 YL	yellow	19,0	9,5	0,76	5
TCR 19/9,5 YL-GR	yellow-green	19,0	9,5	0,76	5
TCR 25,4/12,7 BK	black	25,4	12,7	0,89	5
TCR 25,4/12,7 BL	blue	25,4	12,7	0,89	5
TCR 25,4/12,7 BR	brown	25,4	12,7	0,89	5
TCR 25,4/12,7 CL	transparent	25,4	12,7	0,89	5
TCR 25,4/12,7 GR	green	25,4	12,7	0,89	5
TCR 25,4/12,7 RD	red	25,4	12,7	0,89	5
TCR 25,4/12,7 VL	violet	25,4	12,7	0,89	5
TCR 25,4/12,7 WT	white	25,4	12,7	0,89	5
TCR 25,4/12,7 YL	yellow	25,4	12,7	0,89	5
TCR 25,4/12,7 YL-GR	yellow-green	25,4	12,7	0,89	5
TCR 38/19 BK	black	38,0	19,0	1,02	5
TCR 38/19 BL	blue	38,0	19,0	1,02	5
TCR 38/19 BR	brown	38,0	19,0	1,02	5
TCR 38/19 CL	transparent	38,0	19,0	1,02	5
TCR 38/19 GR	green	38,0	19,0	1,02	5
TCR 38/19 RD	red	38,0	19,0	1,02	5
TCR 38/19 VL	violet	38,0	19,0	1,02	5
TCR 38/19 WT	white	38,0	19,0	1,02	5
TCR 38/19 YL	yellow	38,0	19,0	1,02	5
TCR 38/19 YL-GR	yellow-green	38,0	19,0	1,02	5
TCR 51/25,5 BK	black	51,0	25,5	1,14	5
TCR 51/25,5 BL	blue	51,0	25,5	1,14	5
TCR 51/25,5 CL	transparent	51,0	25,5	1,14	5
TCR 51/25,5 GR	green	51,0	25,5	1,14	5
TCR 51/25,5 RD	red	51,0	25,5	1,14	5
TCR 51/25,5 VL	violet	51,0	25,5	1,14	5
TCR 51/25,5 YL	yellow	51,0	25,5	1,14	5
TCR 76/38 BK	black	76,0	38,0	1,27	5
TCR 76/38 BL	blue	76,0	38,0	1,27	5
TCR 76/38 CL	transparent	76,0	38,0	1,27	5
TCR 76/38 GR	green	76,0	38,0	1,27	5
TCR 76/38 RD	red	76,0	38,0	1,27	5
TCR 76/38 YL	yellow	76,0	38,0	1,27	5
TCR 102/51 BK	black	102,0	51,0	1,40	5

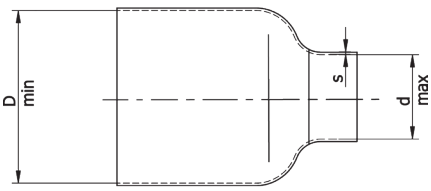
Heat-shrink thin-walled flexible hoses, TCREL type

FEATURES & BENEFITS

- popular thin-walled heat-shrink conduits with good insulating properties, in 1 m long sections
- flexible and economical
- very wide range of sizes and colours



Heat-shrink, thin-walled
Type: inside diameter on delivery / inside diameter after shrinking



MECHANICAL DATA

Material	Cross-linked polyethylene, flame retardand
Halogen-free	yes
Recommended shrinking temperature [°C]	70 ÷ 125
Operating temperature [°C]	-55 ÷ +125
Shrinkage factor	2:1
Colour	black

ELECTRICAL DATA

Breakdown strength [kV/mm]	12

DIMENSIONS

Length [m]	1

NOTE!

For other colour versions, visit www.ergom.com.

Type	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]	Quantity in package [pcs]
TCREL 1,6/0,8 BK	1,6	0,8	0,33	10
TCREL 2,4/1,2 BK	2,4	1,2	0,44	10
TCREL 3,2/1,6 BK	3,2	1,6	0,44	10
TCREL 4,0/2,0 BK	4,0	2,0	0,44	10
TCREL 4,8/2,4 BK	4,8	2,4	0,5	10
TCREL 6,4/3,2 BK	6,4	3,2	0,56	10
TCREL 8,0/4,0 BK	8,0	4,0	0,56	10
TCREL 9,5/4,8 BK	9,5	4,8	0,56	10
TCREL 12,7/6,4 BK	12,7	6,4	0,68	10
TCREL 19/9,5 BK	19,0	9,5	0,78	10
TCREL 25,4/12,7 BK	25,4	12,7	0,90	5
TCREL 38/19 BK	38,0	19,0	1,1	5
TCREL 51/25,5 BK	51	25,5	1,15	5
TCREL 76/38 BK	76,0	38,0	1,25	5

Heat-shrink thin-walled flexible hoses in rolls, TCREL BOX type

FEATURES & BENEFITS

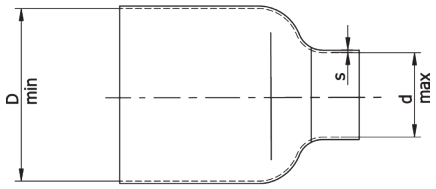
- convenient to use heat-shrink tubes in rolls; practical solution for servicing
- flexible and economical



LOGISTIC DATA

Quantity in package [pcs]	1

Heat-shrink, thin-walled
Type: inside diameter on delivery / inside diameter after shrinking
Colour: black Packaging: 15 ÷ 4 m



MECHANICAL DATA

Material	Cross-linked polyethylene, flame retardand
Recommended shrinking temperature [°C]	70 ÷ 125
Operating temperature [°C]	-55 ÷ +125
Shrinkage factor	2:1
Colour	black

ELECTRICAL DATA

Breakdown strength [kV/mm]	12

Type	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]	Length [m]
TCREL BOX 1,6/0,8BK	1,6	0,8	0,33	15
TCREL BOX 2,4/1,2BK	2,4	1,2	0,44	15
TCREL BOX 3,2/1,6BK	3,2	1,6	0,44	15
TCREL BOX 4,8/2,4BK	4,8	2,4	0,50	10
TCREL BOX 6,4/3,2BK	6,4	3,2	0,56	10
TCREL BOX 9,5/4,8BK	9,5	4,8	0,56	10
TCREL BOX 12,7/6,4BK	12,7	6,4	0,68	8
TCREL BOX 19/9,5BK	19,0	9,5	0,78	7
TCREL BOX 25,4/12,7BK	25,4	12,7	0,90	4

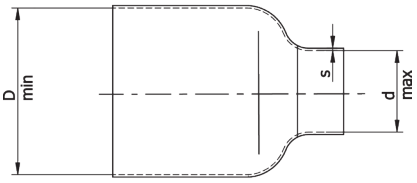
Heat-shrink tubes, TGR, TGRK type

FEATURES & BENEFITS

- thick-walled heat-shrink conduits with and without adhesive
- enhanced mechanical and electric strength
- hot melt adhesive ensures very good insulation tightness in humid environments

Thickened sleeves with and without adhesive.





MECHANICAL DATA

Material	TGR - cross linked polyolefin TGRK - cross linked polyolefin with hot melt adhesive
Halogen-free	yes
UV Resistance	yes
Recommended shrinking temperature [°C]	100 ÷ 125
Operating temperature [°C]	-40 ÷ +125
Shrinkage factor	2:1 do 3:1
Colour	black

ELECTRICAL DATA

Breakdown strength [kV/mm]	12

DIMENSIONS

Length [m]	1

Type	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]	Quantity in package [pcs]
TGR 9/3	9	3	1,5	10
TGR 12/4	12	-	2,0	10
TGR 18/6	18	6	2,0	10
TGR 25/10	29	9	2,5	10
TGR 32/12	32	12	2,6	10
TGR 40/16	40	16	2,7	10
TGR 52/20	50	20	2,7	10
TGR 63/27	63	27	2,7	5
TGR 80/35	94	30	3,0	5
TGR 103/35	103	35	3,0	5
TGR 132/58	132	58	3,2	5
TGRK 9/3	9	3	1,5	10
TGRK 12/4	12	-	2,0	10
TGRK 18/6	18	6	2,0	10
TGRK 25/10	29	9	2,5	10
TGRK 32/12	32	12	2,6	10
TGRK 40/16	40	16	2,7	10
TGRK 52/20	50	20	2,7	10
TGRK 63/27	63	27	2,7	5
TGRK 80/35	94	30	3,0	5
TGRK 103/35	103	35	3,0	5
TGRK 132/58	132	58	3,2	5

Heat-shrink caps, TZK type

FEATURES & BENEFITS

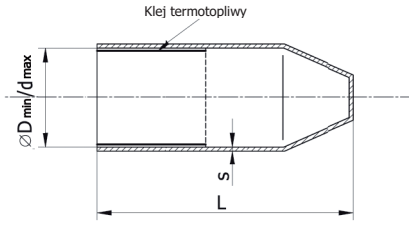
- heat-shrink caps for cable terminal protection
- hot melt adhesive ensures very good insulation tightness in humid environments



LOGISTIC DATA

Quantity in package [pcs]	10

Used to seal and protect cable terminations. Internally coated with hot melt glue. Start shrink wrapping from the blind end.



MECHANICAL DATA

Material	cross linked polyolefin with hot melt adhesive
Halogen-free	yes
UV Resistance	yes
Recommended shrinking temperature [°C]	120 ÷ 200
Operating temperature [°C]	-40 ÷ +100
Shrinkage factor	2:1 do 3:1
Colour	black

ELECTRICAL DATA

Breakdown strength [kV/mm]	12

Type	Length in delivery L [mm]	Inside diameter on delivery D [mm]	Inside diameter in full shrinkage d [mm]	Wall thickness on full shrinkage - s [mm]
TZK 10/4	58	12	-	2,3
TZK 14/4	58	14	-	2,3
TZK 16/8	85	16	7,9	2,9
TZK 18/6	20	18	6	2,1
TZK 21/6	20	21	6	2,1
TZK 23/8	75	25	8	2,5
TZK 33/15	75	35	11	2,5
TZK 40/15	106	40	14,6	3,5
TZK 52/25	125	55	25	3,5
TZK 63/25	125	63	25	3,8
TZK 70/25	115	70	24,2	3,5
TZK 75/35	140	75	35	4,0
TZK 90/45	160	100	45	4,0
TZK 120/45	200	120	45	4,0
TZK 120/60	160	130	60	4,6

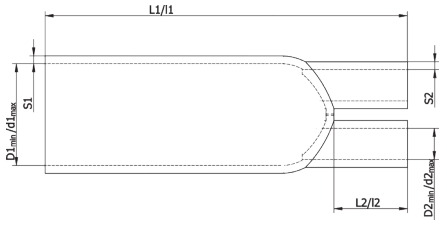
Heat-shrink breakouts, PE

FEATURES & BENEFITS

- breakouts securing multi-conductor cable ends
- protects cable ends against mechanical impact and moisture penetration
- hot melt adhesive ensures very good insulation tightness in humid environments

Used as branching boxes for 0,6/1 kV power cables.





MECHANICAL DATA

Material	cross linked polyolefin with hot melt adhesive
Halogen-free	yes
UV Resistance	yes
Recommended shrinking temperature [°C]	100 ÷ 125
Operating temperature [°C]	-25 ÷ +105
Shrinkage factor	3:1
Colour	black

ELECTRICAL DATA

Breakdown strength [kV/mm]	12

Type	Number of cores	L1	L2	l1	l2	S1	S2	$d1_{max}$	$d2_{max}$	$D1_{min}$	$D2_{min}$	Quantity in package [pcs]
PT-2 6-25	2	70	15	85	20	2,2	2	10	-	32	14	10
PT-3 16-35	3	80	15	100	21	2,2	2,0	14	-	36	15	10
PT-3 35-150	3	160	45	188	62	3,7	2,8	20	8	60	25	10
PT-4 1,5-6	-	58	18	80	25	2,6	1,8	9	4	28	8	10
PT-4 2,5-10	-	80	15	100	25	2,4	1,7	12	3	40	12	10
PT-4 6-35	-	80	15	100	23	2,4	1,7	16	-	41	14	10
PT-4 16-95	-	140	32	170	48	3,5	2,5	26	7	57	20	10
PT-4 25-150	-	155	35	190	48	3,7	2,6	30	9	70	25	1
PT-4 120-300	-	170	35	210	52	3,7	2,6	42	13	90	35	1
PT-4 120-400	-	170	30	208	51	3,7	2,6	44	14	125	40	1
PT-5 16-35	5	85	21	110	33	3,2	2,6	16	-	50	15	1
PT-5 35-70	5	80	21	110	33	3,2	2,6	17	-	50	15	1
PT-5 95-240	5	155	55	190	65	3,3	2,8	32	8	80	26	1

L1 - Length in delivery L1 [mm]
L2 - Length in delivery L2 [mm]
l1 - Length in contraction state l1 [mm]
l2 - Length in contraction state l2 [mm]
S1 - Minimum wall thickness after shrinking in the main section S1 [mm]
S2 - Minimum wall thickness after shrinking in the branched section S2 [mm]
$d1_{max}$ - Inside diameter in full shrinkage $d1_{max}$ [mm]
$d2_{max}$ - Inside diameter in full shrinkage $d2_{max}$ [mm]
$D1_{min}$ - Inside diameter on delivery $D1_{min}$ [mm]
$D2_{min}$ - Inside diameter on delivery $D2_{min}$ [mm]

OSKS insulating tubes

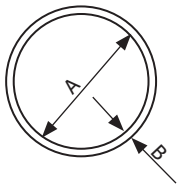
FEATURES & BENEFITS

- electroinsulating sleeve for high-temperature operation - up to 180°C
- exceptional electric and mechanical properties
- wide range of diameters



APPLICATION

Insulation of LV cables and wires operating at increased temperatures



CE

MECHANICAL DATA

Material	glass fibre, impregnated with silicone rubber
Operating temperature [°C]	-40 ÷ +180
Flammability	self-extinguishing
Colour	white

ELECTRICAL DATA

Min. resistance [Ωm]	10^4 wg PN-EN 60684-2
Breakdown strength [kV]	4,3

CERTIFICATES & STANDARDS

Standards	EN60684-2; EN60684-3; The material meets the requirements of R24 of EN45545-2: 2013 + A1: 2015 for the HL1 and HL2 hazard level.

Type	Wall thickness [mm] B	Inside diameter [mm] A	Quantity in package [m]
OSKS-1	0.5 (+ 0,15 tolerance)	1 (+ 0,4 tolerance)	100
OSKS-1,5	0.5 (+ 0,15 tolerance)	1.5 (+ 0,4 tolerance)	100
OSKS-2	0.5 (+ 0,15 tolerance)	2 (+ 0,4 tolerance)	100
OSKS-2,5	0.5 (+ 0,15 tolerance)	2.5 (+ 0,4 tolerance)	100
OSKS-3	0.5 (+ 0,15 tolerance)	3 (+ 0.5 tolerance)	100
OSKS-3,5	0.5 (+ 0,15 tolerance)	3.5 (+ 0.5 tolerance)	100
OSKS-4	0.5 (+ 0,15 tolerance)	4 (+ 0.5 tolerance)	100
OSKS-4,5	0.5 (+ 0,15 tolerance)	4.5 (+ 0.5 tolerance)	100
OSKS-5	0.5 (+ 0,15 tolerance)	5 (+ 0.5 tolerance)	100
OSKS-6	0.5 (+ 0,15 tolerance)	6 (+ 0.5 tolerance)	50
OSKS-7	0.5 (+ 0,15 tolerance)	7 (+ 0.5 tolerance)	50
OSKS-8	0,7 (+ 0,20 tolerance)	8 (+ 0,6 tolerance)	50
OSKS-9	0,7 (+ 0,20 tolerance)	9 (+ 0,6 tolerance)	50
OSKS-10	0,7 (+ 0,20 tolerance)	10 (+ 0,6 tolerance)	50
OSKS-12	0,7 (+ 0,20 tolerance)	12 (+ 0,6 tolerance)	30
OSKS-14	0,7 (+ 0,30 tolerance)	14 (+ 0,2 tolerance)	30
OSKS-16	0,7 (+ 0,30 tolerance)	16 (+ 0,4 tolerance)	20

OSKS/1 insulating tubes

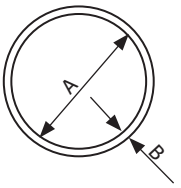
FEATURES & BENEFITS

- electroinsulating sleeve for high-temperature operation - up to 180°C and up to 1 kV
- exceptional electric and mechanical properties
- wide range of diameters



APPLICATION

Insulation of LV cables and wires operating at increased temperatures



MECHANICAL DATA

Material	glass fibre, impregnated with silicone rubber
Operating temperature [°C]	-40 ÷ +180
Flammability	self-extinguishing
Colour	white

CE

ELECTRICAL DATA

Breakdown strength [kV]	-

CERTIFICATES & STANDARDS

Standards	EN 60684-1; EN 60684-3-402

Type	Wall thickness [mm] B	Inside diameter [mm] A	Quantity in package [m]
OSKS/1-1	0,30	1,0	100
OSKS/1-1,5	0,30	1,5	100
OSKS/1-2	0,30	2,0	100
OSKS/1-2,5	0,30	2,5	100
OSKS/1-3	0,30	3,0	100
OSKS/1-3,5	0,30	3,5	100
OSKS/1-4	0,30	-	100
OSKS/1-5	0,50	5	100
OSKS/1-6	0,50	6	100
OSKS/1-7	0,50	7	50
OSKS/1-8	0,60	8	50
OSKS/1-9	0,60	9	50
OSKS/1-10	0,60	10,0	50
OSKS/1-12	0,65	12,0	30
OSKS/1-14	0,65	14,0	30
OSKS/1-16	0,75	16,0	30
OSKS/1-18	0,75	18,0	30
OSKS/1-20	0,85	20,0	30
OSKS/1-22	0,85	22,0	30
OSKS/1-25	0,85	25,0	30

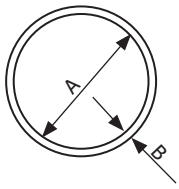
PVC insulating tubes

FEATURES & BENEFITS

- ☑ popular electro-insulation sleeves for dry environments
- ☑ very wide range of diameters: from 1 to 50 mm
- ☑ various colours available



Insulating tubing is used for insulating electrical wires.



MECHANICAL DATA

Material	PVC, plasticized
Operating temperature [°C]	-40 ÷ +70
Colour	black

ELECTRICAL DATA

Breakdown voltage [kV/mm]	not smaller than 10

NOTE!

For other colour versions, visit www.ergom.com.

Sleeves in sections - on request

Type	Wall thickness [mm] B	Inside diameter [mm] A	Quantity in package [m]
PCV 1X0,3 BK	0,3	-	200
PCV 1X0,5 BK	0,5	-	200
PCV 1,5X0,5 BK	0,5	1,5	200
PCV 2X0,5 BK	0,5	2	200
PCV 2,5X1 BK	-	2,5	200
PCV 2.5X0.5 BK	-	2,5	200
PCV 3X0,5 BK	0,5	3	200
PCV 3X1 BK	-	3	200
PCV 3,5X0,5 BK	0,5	3,5	200
PCV 3,5X1 BK	-	3,5	200
PCV 4X0,5 BK	0,5	-	200
PCV 4X1 BK	-	-	200
PCV 4X1,5 BK	1,5	-	200
PCV 5X0,5 BK	0,5	5	200
PCV 5X1 BK	-	5	200
PCV 5X1,5 BK	1,5	5	200
PCV 6X0,5 BK	1,5	5	200
PCV 6X1 BK	-	6	200
PCV 6X1,5 BK	1,5	6	200
PCV 7X0,5 BK	0,5	7	200
PCV 7X1 BK	-	7	200
PCV 7X1,5 BK	1,5	7	200
PCV 8X0,5 BK	0,5	8	200
PCV 8X1 BK	-	8	200
PCV 8X1,5 BK	1,5	8	200
PCV 9X0,5 BK	0,5	9	200
PCV 9X1 BK	-	9	200
PCV 9X1,5 BK	1,5	9	200
PCV 10X0.5 BK	0,5	10	100
PCV 10X1 BK	-	10	100
PCV 10X1,5 BK	1,5	10	100
PCV 12X0,5 BK	0,5	12	100
PCV 12X1 BK	-	12	100
PCV 12X1,5 BK	1,5	12	100

Type	Wall thickness [mm] B	Inside diameter [mm] A	Quantity in package [m]
PCV 14X0,5 BK	0,5	14	100
PCV 14X1 BK	-	14	100
PCV 14X1,5 BK	1,5	14	100
PCV 15X0,5 BK	0,5	15	60
PCV 15X1 BK	-	15	60
PCV 15X1,5 BK	1,5	15	60
PCV 16X0,5 BK	0,5	16	60
PCV 16X1 BK	-	16	60
PCV 16X1,5 BK	1,5	16	60
PCV 17X0,5 BK	0,5	17	60
PCV 17X1 BK	-	17	60
PCV 17X1,5 BK	1,5	17	60
PCV 18X0,5 BK	0,5	18	60
PCV 18X1 BK	-	18	60
PCV 18X1,5 BK	1,5	18	60
PCV 18X2 BK	2	18	60
PCV 19X0,5 BK	0,5	19	60
PCV 19X1 BK	-	19	60
PCV 19X1,5 BK	1,5	19	60
PCV 20X0,5 BK	0,5	20	60
PCV 20X1 BK	-	20	60
PCV 20X1,5 BK	1,5	20	60
PCV 21X1 BK	-	21	60
PCV 22X0,5 BK	0,5	22	60
PCV 22X1 BK	-	22	60
PCV 22X1,5 BK	1,5	22	60
PCV 23X0,5 BK	0,5	23	60
PCV 23X1 BK	-	23	60
PCV 24X0,5 BK	0,5	24	60
PCV 24X1 BK	-	24	60
PCV 25X0,5 BK	0,5	25	60
PCV 25X1 BK	-	25	60
PCV 26X0,5 BK	0,5	26	60
PCV 26X1 BK	-	26	60
PCV 28X0,5 BK	0,5	28	60
PCV 28X1 BK	-	28	60
PCV 30X0,5 BK	0,5	30	60
PCV 30X1 BK	-	30	60
PCV 30X1,5 BK	1,5	30	60
PCV 30X2 BK	2	30	60
PCV 32X0,5 BK	2	30	60
PCV 32X1 BK	-	32	60
PCV 32X1,5 BK	1,5	32	60
PCV 32X2 BK	2	32	60
PCV 34X1 BK	-	34	60
PCV 35X1 BK	-	35	60
PCV 35X1,5 BK	1,5	35	60
PCV 35X2 BK	2	35	60
PCV 36X0,5 BK	0,5	36	60
PCV 36X1 BK	-	36	60
PCV 40X0,5 BK	0,5	40	60
PCV 40X1 BK	-	40	60
PCV 40X1,5 BK	1,5	40	60
PCV 40X2 BK	2	40	60
PCV 45X1 BK	-	45	60
PCV 45X1,5 BK	1,5	45	60
PCV 48X1 BK	-	48	60
PCV 50X0,5 BK	0,5	50	60
PCV 50X1 BK	-	50	60
PCV 50X1,5 BK	1,5	-	60
PCV 50X2 BK	2	50	60

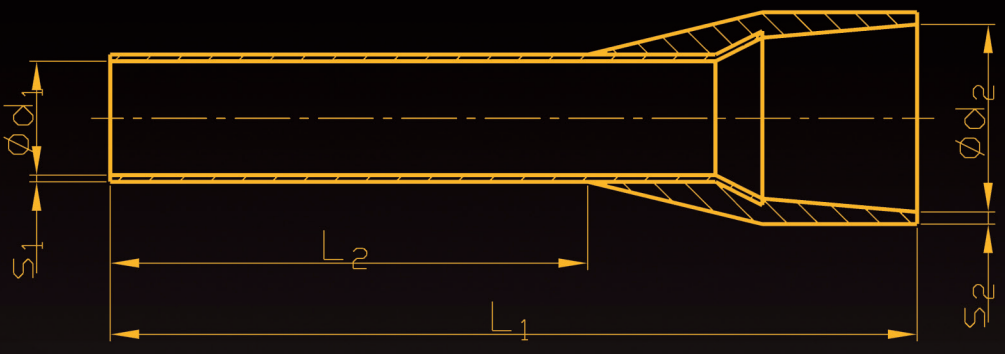
ERGOM®



Cable terminals

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Cord end terminals

Cord end terminals - uninsulated

Uninsulated cord end terminals, H...ERHN type	115

Cord end terminals - insulated

Insulated cord end terminals, HI...ERHL type	117
Insulated cord end terminals, HI 2X type	119

Cord end terminals - sets and boxes

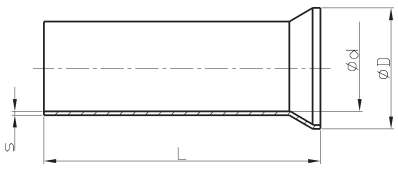
Sets of H and HI terminals in boxes	120
Stock boxes for cord-end terminals	120

Uninsulated cord end terminals, H...ERHN type

FEATURES & BENEFITS

- thin-walled terminal Cu, for multi-wire flexible cables
- sleeve shapes facilitates cable conductor installation





MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

UL certificate	E493579
Design	DIN 46228/1

NOTE!

Other lengths on request.

UL certificate - for up-to-date information, visit www.ergom.com

Type	Cross-section [mm²]	AWG cross-section	L	d	D	s	DIN	UL	Quantity in package [pcs]	Weight [kg]
H 0,14/7 ERHN	0,14	26	7	0,65	1,6	0,15	–	–	1000 / 100	0,03 / 0,01
H 0,25/5 ERHN	0,25	24	5	0,75	1,7	0,15	–	–	1000 / 100	0,03 / 0,01
H 0,25/7 ERHN			7							
H 0,34/5 ERHN	0,34	22	5	0,85	1,8	0,15	–	–	1000 / 100	0,03 / 0,01
H 0,34/7 ERHN			7							0,04 / 0,01
H 0,5/6 ERHN	0,5	20	6	1,0	2,1	0,15	√	√	1000 / 100	0,03 / 0,01
H 0,5/8 ERHN			8				–			0,05 / 0,01
H 0,5/10 ERHN			10				√			0,06 / 0,01
H 0,5/12 ERHN			12				–	–		0,07 / 0,01
H 0,75/6 ERHN	0,75	18	6	1,2	2,3	0,15	√	√	1000 / 100	0,04 / 0,01
H 0,75/8 ERHN			8				–			
H 0,75/10 ERHN			10				√			0,07 / 0,01
H 0,75/12 ERHN			12				–	–		
H 0,75/14 ERHN			14				–			0,075 / 0,007
H 1/6 ERHN	1	17	6	1,4	2,5	0,15	√	√	1000 / 100	0,05 / 0,01
H 1/8 ERHN			8				–			0,06 / 0,01
H 1/10 ERHN			10				√			0,07 / 0,01
H 1/12 ERHN			12				–	–		0,08 / 0,01
H 1/14 ERHN			14				–		1000	0,09
H 1,5/7 ERHN	1,5	16	7	1,7	2,8	0,15	√	√	1000 / 100	0,06 / 0,01
H 1,5/8 ERHN			8				–	–	1000	0,07
H 1,5/10 ERHN			10				√	√	1000 / 100	0,09 / 0,01
H 1,5/12 ERHN			12							0,11 / 0,02
H 1,5/14 ERHN			14				–	–	1000	0,12
H 1,5/15 ERHN			15				–	√	1000 / 100	0,13 / 0,02
H 1,5/18 ERHN			18				√			0,15 / 0,02
H 1,5/20 ERHN			20				–	–	1000	0,16
H 2,5/7 ERHN	2,5	14	7	2,2	3,4	0,15	√	√	1000 / 100	0,08 / 0,01
H 2,5/8 ERHN			8				–	–	1000	0,09
H 2,5/10 ERHN			10				√	√	1000 / 100	0,11 / 0,02
H 2,5/12 ERHN			12							0,13 / 0,02
H 2,5/14 ERHN			14				–	–	1000	0,14
H 2,5/15 ERHN			15				–	√	1000 / 100	0,15 / 0,02
H 2,5/18 ERHN			18				√			0,18 / 0,02
H 2,5/20 ERHN			20				–	–	1000	0,19

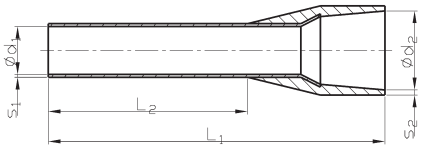
Type	Cross-section [mm²]	AWG cross-section	L	d	D	s	DIN	UL	Quantity in package [pcs]	Weight [kg]
H 4/6 ERHN	4	12	6	2,8	4,0	0,15	–	–	1000	0,11
H 4/9 ERHN			9				√	√	1000 / 100	0,18 / 0,02
H 4/12 ERHN			12							0,21 / 0,03
H 4/14 ERHN			14				–	–	1000	0,22
H 4/15 ERHN			15				√	√	1000 / 100	0,25 / 0,03
H 4/16 ERHN			16		4,0		–	–	100	0,03
H 4/18 ERHN			18		4,0		√	√	1000 / 100	0,29 / 0,03
H 4/20 ERHN			20				–	–	1000	0,35
H 6/10 ERHN	6	10	10	3,5	4,7	0,20	√	√	1000 / 100	0,23 / 0,03
H 6/12 ERHN			12							0,27 / 0,03
H 6/15 ERHN			15							0,33 / 0,04
H 6/18 ERHN			18							0,4 / 0,04
H 6/20 ERHN			20				–	–		0,44 / 0,05
H 6/21 ERHN			21				–		1000	0,45
H 10/12 ERHN	10	8	12	4,5	5,8	0,20	√	√	500 / 100	0,17 / 0,04
H 10/15 ERHN			15							0,21 / 0,05
H 10/18 ERHN			18							0,25 / 0,05
H 10/20 ERHN			20				–	–		0,3 / 0,06
H 10/21 ERHN			21				–			0,31 / 0,07
H 16/12 ERHN	16	6	12	5,8	7,5	0,20	√	√	500 / 100	0,22 / 0,05
H 16/15 ERHN			15							0,27 / 0,06
H 16/16 ERHN			16						100	0,052
H 16/18 ERHN			18				√	√	500 / 100	0,32 / 0,07
H 16/20 ERHN			20				–			0,37 / 0,08
H 16/21 ERHN			21				–	–	500	0,39
H 16/25 ERHN			25				√			0,43
H 16/32 ERHN			32						500 / 100	0,5 / 0,1
H 25/12 ERHN	25	4	12	7,3	9,5	0,20	–	–	500 / 100	0,3 / 0,06
H 25/15 ERHN			15				√	√		0,35 / 0,07
H 25/18 ERHN			18							0,45 / 0,09
H 25/20 ERHN			20				–			0,43 / 0,09
H 25/21 ERHN			21					–	100	0,09
H 25/22 ERHN			22					√	500 / 100	0,48 / 0,1
H 25/23 ERHN			23					–	100	0,1
H 25/25 ERHN			25				√	√	500 / 100	0,5 / 0,1
H 25/27 ERHN			27				–	–	100	0,11
H 25/32 ERHN			32				√			0,15
H 35/12 ERHN	35	2	12	8,3	11,0	0,20	–	–	500 / 100	0,48 / 0,09
H 35/15 ERHN			15						100	0,95
H 35/18 ERHN			18				√	√	500 / 100	0,5 / 0,1
H 35/20 ERHN			20				–			0,53 / 0,11
H 35/21 ERHN			21					–	100	0,12
H 35/22 ERHN			22				–	√		
H 35/23 ERHN			23				–	–		
H 35/25 ERHN			25				√	√		0,13
H 35/32 ERHN			32					–		0,15
H 50/18 ERHN	50	1	18	10,3	13,0	0,30	√	–	100	0,18
H 50/20 ERHN			20				–	√		0,19
H 50/22 ERHN			22							0,2
H 50/25 ERHN			25				–	–		0,3
H 50/30 ERHN			30							0,33
H 50/32 ERHN			32				√			0,35
H 70/25 ERHN	70	2/0	25	12,5	15,0	0,40	–	–	100	0,4
H 70/30 ERHN			30				–			0,41
H 70/32 ERHN			32				–			0,42
H 95/25 ERHN	95	3/0	25	14,5	17,0	0,40	–	–	100	0,49
H 95/30 ERHN			30				–			0,52
H 95/32 ERHN			32							0,53
H 120/32 ERHN	120	4/0	32	16,5	19,0	0,50	–	–	100	0,76
H 120/34 ERHN			34							0,78
H 150/32 ERHN	150	250 MCM	32	18,5	21,0	0,50	–	–	100	0,89
H 150/38 ERHN			38							0,96
H 185/32 ERHN	185	300 MCM	32	20,0	23,5	0,60	–	–	25	0,29
H 185/40 ERHN			40							0,36
H 240/40 ERHN	240	400 MCM	40	22,8	25,5	0,60	–	–	25	0,45

Insulated cord end terminals, HI...ERHL type

FEATURES & BENEFITS

- thin-walled terminal Cu, with insulation sleeve, for multi-wire flexible cables
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- insulation colours facilitate cross-section identification





MECHANICAL DATA

Insulation	polypropylene
Halogen-free	yes
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

CERTIFICATES & STANDARDS

Design	DIN 46228/4 (only DIN colour)

NOTE!

Other lengths and colours on request.

UL certificate - for up-to-date information, visit www.ergom.com

Colours German	Colours as per DIN	Colours French (F)	Cross-section [mm²]	AWG cross-section	L_1	L_2	d_1	d_2	s_1	s_2	DIN	Quantity in package [pcs]
HI 0,14/6 ERHL	HI 0,14/6 ERHL	HI 0,14/6 F ERHL	0,14	26	10,0	6	0,70	1,6	0,15	0,25	–	500 / 100
HI 0,14/8 ERHL	HI 0,14/8 ERHL	HI 0,14/8 F ERHL			12,0	8						
HI 0,25/6 ERHL	HI 0,25/6 DIN ERHL	HI 0,25/6 F ERHL	0,25	24	10,0	6	0,75	1,8	0,15	0,25	–	500 / 100
HI 0,25/8 ERHL	HI 0,25/8 DIN ERHL	HI 0,25/8 F ERHL			12,0	8						
HI 0,34/6 ERHL	HI 0,34/6 ERHL	HI 0,34/6 F ERHL	0,34	22	10,0	6	0,80	2,0	0,15	0,25	–	500 / 100
HI 0,34/8 ERHL	HI 0,34/8 ERHL	HI 0,34/8 F ERHL			12,0	8						
HI 0,5/6 ERHL	HI 0,5/6 DIN ERHL	HI 0,5/6 DIN ERHL	0,5	20	12,0	6	1,00	2,6	0,15	0,25	√	500 / 100
HI 0,5/8 ERHL	HI 0,5/8 DIN ERHL	HI 0,5/8 DIN ERHL			14,0	8						
HI 0,5/10 ERHL	HI 0,5/10 DIN ERHL	HI 0,5/10 DIN ERHL			16,0	10						
HI 0,75/6 ERHL	HI 0,75/6 DIN ERHL	HI 0,75/6 F ERHL	0,75	20	12,0	6	1,20	2,8	0,15	0,25	√	500 / 100
HI 0,75/8 ERHL	HI 0,75/8 DIN ERHL	HI 0,75/8 F ERHL			14,0	8						
HI 0,75/10 ERHL	HI 0,75/10 DIN ERHL	HI 0,75/10 F ERHL			16,0	10						
HI 0,75/12 ERHL	HI 0,75/12 DIN ERHL	HI 0,75/12 F ERHL			18,0	12						
HI 1/6 ERHL	HI 1/6 DIN ERHL	HI 1/6 DIN ERHL	1	18	12,0	6	1,40	3,0	0,15	0,25	√	500 / 100
HI 1/8 ERHL	HI 1/8 DIN ERHL	HI 1/8 DIN ERHL			14,0	8						
HI 1/10 ERHL	HI 1/10 DIN ERHL	HI 1/10 DIN ERHL			16,0	10						
HI 1/12 ERHL	HI 1/12 DIN ERHL	HI 1/12 DIN ERHL			18,0	12						
HI 1,5/8 ERHL	HI 1,5/8 DIN ERHL	HI 1,5/8 DIN ERHL	1,5	16	14,0	8	1,70	3,5	0,15	0,25	√	500 / 100
HI 1,5/10 ERHL	HI 1,5/10 DIN ERHL	HI 1,5/10 DIN ERHL			16,0	10						
HI 1,5/12 ERHL	HI 1,5/12 DIN ERHL	HI 1,5/12 DIN ERHL			18,0	12						
HI 1,5/18 ERHL	HI 1,5/18 DIN ERHL	HI 1,5/18 DIN ERHL			24,0	18						

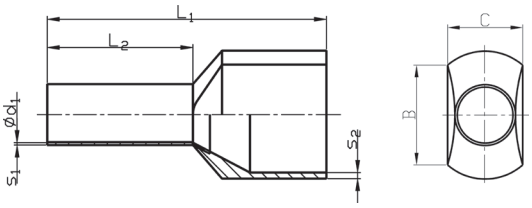
Colours German	Colours as per DIN	Colours French (F)	Cross-section [mm²]	AWG cross-section	L_1	L_2	d_1	d_2	s_1	s_2	DIN	Quantity in package [pcs]
HI 2,5/8 ERHL	HI 2,5/8 ERHL	HI 2,5/8 F ERHL	2,5	14	14,0	8	2,20	4,2	0,15	0,25	√	500 / 100
HI 2,5/10 ERHL	HI 2,5/10 ERHL	HI 2,5/10 F ERHL			16,0	10					–	
HI 2,5/12 ERHL	HI 2,5/12 ERHL	HI 2,5/12 F ERHL			18,0	12					√	
HI 2,5/18 ERHL	HI 2,5/18 ERHL	HI 2,5/18 F ERHL			24,0	18						
HI 4/10 ERHL	HI 4/10 ERHL	HI 4/10 F ERHL	4	12	17,0	10	2,80	4,8	0,20	0,30	√	500 / 100
HI 4/12 ERHL	HI 4/12 ERHL	HI 4/12 F ERHL			20,0	12						
HI 4/18 ERHL	HI 4/18 ERHL	HI 4/18 F ERHL			26,0	18						
HI 6/10 ERHL	HI 6/10 DIN ERHL	HI 6/10 F ERHL	6	10	18,0	10	3,50	6,3	0,20	0,30	–	100
HI 6/12 ERHL	HI 6/12 DIN ERHL	HI 6/12 F ERHL			20,0	12					√	
HI 6/15 ERHL	HI 6/15 DIN ERHL	HI 6/15 F ERHL			23,0	15						
HI 6/18 ERHL	HI 6/18 DIN ERHL	HI 6/18 F ERHL			26,0	18						
HI 10/12 ERHL	HI 10/12 DIN ERHL	HI 10/12 F ERHL	10	8	22,0	12	4,50	7,6	0,20	0,40	√	100
HI 10/15 ERHL	HI 10/15 DIN ERHL	HI 10/15 F ERHL			25,0	15					–	
HI 10/18 ERHL	HI 10/18 DIN ERHL	HI 10/18 F ERHL			28,0	18					√	
HI 16/12 ERHL	HI 16/12 DIN ERHL	HI 16/12 F ERHL	16	6	24,0	12	5,80	8,8	0,20	0,40	√	100
HI 16/15 ERHL	HI 16/15 DIN ERHL	HI 16/15 F ERHL			27,0	15						
HI 16/18 ERHL	HI 16/18 DIN ERHL	HI 16/18 F ERHL			30,0	18						
HI 25/16 ERHL	HI 25/16 DIN ERHL	HI 25/16 F ERHL	25	4	30,0	16	7,30	11,2	0,20	0,40	√	50 / 100
HI 25/22 ERHL	HI 25/22 DIN ERHL	HI 25/22 F ERHL			36,0	22						
HI 35/16 ERHL	HI 35/16 DIN ERHL	HI 35/16 DIN ERHL	35	2	30,0	16	8,30	12,7	0,20	0,40	√	50 / 100
HI 35/18 ERHL	HI 35/18 DIN ERHL	HI 35/18 DIN ERHL			32,0	18						
HI 35/25 ERHL	HI 35/25 DIN ERHL	HI 35/25 DIN ERHL			39,0	25						
HI 50/20 ERHL	HI 50/20 DIN ERHL	HI 50/20 DIN ERHL	50	1	36,0	20	10,30	15,0	0,30	0,50	√	50
HI 50/25 ERHL	HI 50/25 DIN ERHL	HI 50/25 DIN ERHL			40,0	25						
HI 70/20 ERHL	HI 70/20 ERHL	HI 70/20 ERHL	70	2/0	37,0	20	13,50	16,0	0,40	0,60	√	50
HI 95/25 ERHL	HI 95/25 ERHL	HI 95/25 ERHL	95	3/0	44,0	25	14,50	18,0	0,40	0,60	–	25
HI 120/27 ERHL	HI 120/27 ERHL	HI 120/27 ERHL	120	4/0	48,0	27	16,50	20,0	0,45	0,70	–	25
HI 150/32 ERHL	HI 150/32 ERHL	HI 150/32 ERHL	150	5/0	58,0	32	19,50	23,0	0,50	1,00	–	25

Insulated cord end terminals, HI 2X type

FEATURES & BENEFITS

- thin-walled terminal Cu, for multi-wire flexible cables; possible crimping of two cables in one terminal
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- insulation colours facilitate cross-section identification





APPLICATION

Designed to combine two multi-core conductors.

MECHANICAL DATA

Insulation	polypropylene
Halogen-free	yes
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

CERTIFICATES & STANDARDS

Design	DIN 46228/4 (concerns only the copper part of terminal)

NOTE!

Other lengths and colours on request.

UL certificate - for up-to-date information, visit www.ergom.com

Colours German	Colours as per DIN	Colours French (F)	Cross-section [mm²]	AWG cross-section	L_1	L_2	d_1	C x B	s_1	s_2	Quantity in package [pcs]
HI 2X0,5/8	HI 2X0,5/8 DIN	HI 2X0,5/8 DIN	2x0,5	2x20	15,0	8	1,4	2,5x4,7	0,15	0,25	500 / 100
HI 2X0,75/8	HI 2X0,75/8 DIN	HI 2X0,75/8 F	2x0,75	2x20	15,0	8	1,7	2,8x5	0,15	0,25	500 / 100
HI 2X0,75/10	HI 2X0,75/10 DIN	HI 2X0,75/10 F			17,0	10					
HI 2X1/8	HI 2X1/8 DIN	HI 2X1/8 DIN	2x1	2x18	15,0	8	1,95	3,4x5,4	0,15	0,30	500 / 100
HI 2X1/10	HI 2X1/10 DIN	HI 2X1/10 DIN			17,0	10					
HI 2X1,5/8	HI 2X1,5/8 DIN	HI 2X1,5/8 DIN	2x1,5	2x16	16,0	8	2,2	3,6x6,6	0,15	0,30	500 / 100
HI 2X1,5/12	HI 2X1,5/12 DIN	HI 2X1,5/12 DIN			20,0	12					
HI 2X2,5/10	HI 2X2,5/10	HI 2X2,5/10 F	2x2,5	2x14	18,5	10	2,8	4,2x7,8	0,20	0,30	500 / 100
HI 2X2,5/13	HI 2X2,5/13	HI 2X2,5/13 F			21,5	13					
HI 2X4/12	HI 2X4/12	HI 2X4/12 F	2x4	2x12	23,0	12	3,7	4,9x8,9	0,20	0,40	100 / 50
HI 2X6/14	HI 2X6/14 DIN	HI 2X6/14 F	2x6	2x10	26,0	14	4,8	6,9x10,0	0,20	0,40	100 / 50
HI 2X10/14	HI 2X10/14 DIN	HI 2X10/14 F	2x10	2x8	26,0	14	6,4	7,2x13	0,20	0,40	100
HI 2X16/14	HI 2X16/14 DIN	HI 2X16/14 F	2x16	2x6	30,0	14	8,2	9,6x18,4	0,20	0,40	50

Sets of H and HI terminals in assortment boxes



FEATURES & BENEFITS

- most commonly used types/sizes of terminals in one set
- perfect solution for field servicing work

Sets ZHA, ZHB contain H terminals of different cross-sections whereas sets ZHIA and ZHIB consist of HI terminals. Terminals are segregated in easy to use colorless boxes.

Set composition ZHA	Included [pcs]
H 0,5/6 ERHN	500
H 0,75/6 ERHN	500
H 1/6 ERHN	500
H 1,5/7 ERHN	500
H 2,5/7 ERHN	200

Set composition ZHB	Included [pcs]
H 1/10 ERHN	500
H 1,5/10 ERHN	500
H 2,5/10 ERHN	500
H 4/12 ERHN	200

Set composition ZHIA	Included [pcs]
HI 0,5/8 ERHL	100
HI 0,75/8 ERHL	100
HI 1/8 ERHL	100
HI 1,5/8 ERHL	100
HI 2,5/8 ERHL	100

Set composition ZHIB	Included [pcs]
HI 4/12 ERHL	50
HI 6/12 ERHL	20
HI 10/12 ERHL	20
HI 16/12 ERHL	10

List of types
ZHA
ZHB
ZHIA
ZHIB

Stock boxes for cord-end terminals



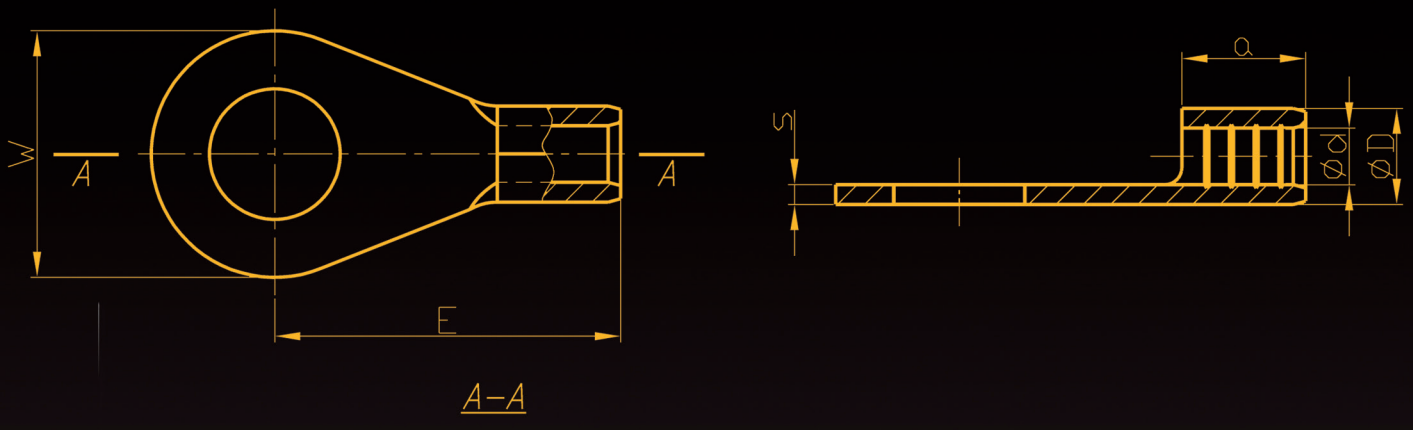
FEATURES & BENEFITS

- facilitates creation of generic set of terminals tailored to individual needs
- perfect solution for field servicing work

We offer 2 types of empty transparent assortment boxes:
PA-A with 5 usable chambers and 1 idle chamber.
PA-B - with 4 usable chambers and 1 idle chamber.

List of types
PA-A
PA-B

ERGOM®





Cable terminals - uninsulated

Cable terminals - uninsulated

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Parallel compression connectors, KLZ	134

Ring terminals, KO type

FEATURES & BENEFITS

- ring terminal Cu, as per DIN - low-cost and popular solution
- description of cable cross-section and terminal size on fin surface

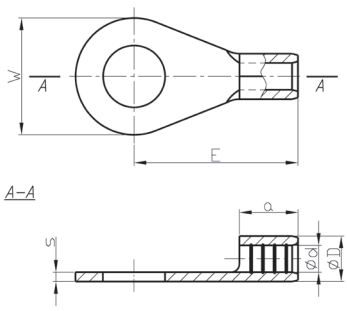


MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

UL certificate	E475284
Certifications	IEN tylko 0,5 - 95 mm²
Design	DIN 46234



NOTE!

UL certificate - for up-to-date information, visit www.ergom.com

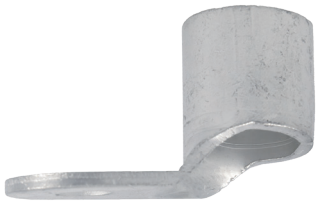
Type	Cross-section [mm²]	Screw hole	DIN	UL	d	D	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KO 0,5/2	0,1÷0,5	M 2	√	–	1,0	2,0	0,5	4	10	5	100 / 25	0,02 / 0,01
KO 0,5/2,5		M 2,5										
KO 0,5/3		M 3										
KO 0,5/4		M 4							12	6,5		0,03 / 0,01
KO 0,5/5		M 5								8		
KO 1/2,5	0,75÷1	M 2,5	√	√	1,6	3,2	0,8	5	11	6	100 / 25	0,06 / 0,02
KO 1/3		M 3										
KO 1/3,5		M 3,5										
KO 1/4		M 4							12	8		0,07 / 0,02
KO 1/5		M 5							13	10		0,08 / 0,02
KO 1/6		M 6	–									0,07 / 0,02
KO 1/8		M 8							17	14		0,12 / 0,03
KO 1/10		M 10										0,1 / 0,03
KO 2,5/3	1,5÷2,5	M 3	√	√	2,3	3,9	0,8	5	11	6	100 / 25	0,06 / 0,02
KO 2,5/3,5		M 3,5										
KO 2,5/4		M 4							12	8		0,08 / 0,02
KO 2,5/5		M 5							14	10		0,09 / 0,03
KO 2,5/6		M 6							16	11		0,11 / 0,03
KO 2,5/8		M 8							17	14		0,13 / 0,04
KO 2,5/10		M 10	–						18	18		0,17 / 0,05
KO 2,5/12		M 12										0,14 / 0,05
KO 2,5/16		M 16		–				4,8	26	27		0,3 / 0,08
KO 6/3,5	4÷6	M 3,5	–	√	3,6	5,6	1,0	6	14	8	100 / 25	0,14 / 0,04
KO 6/4		M 4	√									
KO 6/5		M 5							15	10		0,16 / 0,04
KO 6/6		M 6							16	11		0,17 / 0,05
KO 6/8		M 8							19	14		0,21 / 0,06
KO 6/10		M 10							21	18		0,27 / 0,07
KO 6/12		M 12	–									0,23 / 0,06

Type	Cross-section [mm²]	Screw hole	DIN	UL	d	D	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KO 10/4	10	M 4	–	–	4,5	6,7	1,1	8	16	10	100 / 10	0,24 / 0,03
KO 10/5		M 5	√	√								0,23 / 0,03
KO 10/6		M 6							17	11		
KO 10/8		M 8							20	14		0,28 / 0,03
KO 10/10		M 10							21	18		0,34 / 0,04
KO 10/12		M 12		–		7,0			23	22		0,42 / 0,05
KO 16/5	16	M 5	√	√	5,8	8,2	1,2	10	20	11	100 / 10	0,38 / 0,04
KO 16/6		M 6										0,36 / 0,04
KO 16/8		M 8							22	14		0,42 / 0,05
KO 16/10		M 10							24	18		0,5 / 0,05
KO 16/12		M 12		–					26	22		0,58 / 0,06
KO 25/5	25	M 5	√	√	7,5	10,5	1,5	11	25	12	100 / 10	0,72 / 0,08
KO 25/6		M 6										0,7 / 0,08
KO 25/8		M 8								16		0,77 / 0,08
KO 25/10		M 10							26	18		0,8 / 0,08
KO 25/12		M 12		–					31	22		0,98 / 0,1
KO 25/16		M 16							35	28		1,2 / 0,1
KO 35/6	35	M 6	√	√	9,0	12,2	1,6	12	26	15	100 / 10	1 / 0,1
KO 35/8		M 8								16		0,97 / 0,1
KO 35/10		M 10							27	18		0,98 / 0,1
KO 35/12		M 12		–					31	22		1,2 / 0,1
KO 35/16		M 16							36	28		1,4 / 0,2
KO 50/6	50	M 6	√	√	11,0	14,6	1,8	16	34	18	100 / 10	1,65 / 0,2
KO 50/8		M 8										1,75 / 0,2
KO 50/10		M 10										1,63 / 0,2
KO 50/12		M 12		–					36	22		1,85 / 0,2
KO 50/16		M 16							40	28		2,15 / 0,3
KO 70/6	70	M 6	√	√	13,0	17,0	2,0	18	38	22	100 / 10	2,65 / 0,3
KO 70/8		M 8										2,6 / 0,3
KO 70/10		M 10										2,55 / 0,3
KO 70/12		M 12										2,4 / 0,3
KO 70/16		M 16		–					42	28		2,8 / 0,3
KO 95/8	95	M 8	√	√	15,0	20,0	2,5	20	42	24	100 / 10	4 / 0,4
KO 95/10		M 10										
KO 95/12		M 12										3,8 / 0,4
KO 95/16		M 16		–					44	28		3,9 / 0,4
KO 120/8	120	M 8	√	–	16,5	22,5	3,0	22	44	24	50 / 10	2,85 / 0,3
KO 120/10		M 10										2,8 / 0,3
KO 120/12		M 12										2,7 / 0,3
KO 120/16		M 16							48	28		2,9 / 0,3
KO 150/10	150	M 10	√	–	19,0	25,4	3,2	24	50	30	50 / 10	3,8 / 0,4
KO 150/12		M 12										
KO 150/16		M 16										3,76 / 0,4
KO 185/10	185	M 10	√	–	21,0	28,0	3,5	28	50	36	25 / 10	2,53 / 0,3
KO 185/12		M 12										
KO 185/16		M 16										2,6 / 0,3
KO 240/10	240	M 10	√	–	23,5	31,5	4	32	56	38	25 / 10	3,7 / 0,4
KO 240/12		M 12										3,58 / 0,4
KO 240/16		M 16										3,73 / 0,4
KO 300/10	300	M 10	–	–	28	37	4,5	35,5	69	50	10 / 1	5,2 / 0,52
KO 300/12		M 12										5,05 / 0,5
KO 300/16		M 16										5,25 / 0,52

Angle ring terminals K90O type

FEATURES & BENEFITS

- ring terminal, Cu, as per DIN, however the connection fin is bended at 90 degrees relative to the terminal part crimped on the wire
- description of cable cross-section and terminal size on fin surface

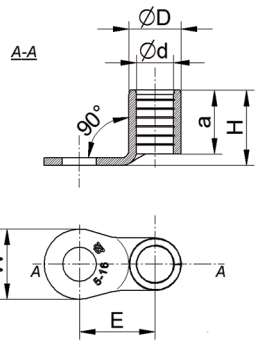


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	Cu
Covering	tin-plated



CERTIFICATES & STANDARDS

Design	DIN 46234 - before fin bending

NOTE!

Use tools as for KO terminals.

Bending can be made at different angle.

Type	Cross-section [mm²]	Screw hole	DIN	d	D	s	W	Weight [kg]
K90O 1/2,5	0,75÷1,0	M2,5	√	1,6	3,2	0,8	6	0,06
K90O 1/3		M3						
K90O 1/3,5		M3,5						
K90O 1/4		M4					8	0,07
K90O 1/5		M5					10	0,08
K90O 1/6		M6	–					0,07
K90O 1/8		M8					14	0,12
K90O 1/10		M10						0,1
K90O 2,5/3	1,5÷2,5	M3	√	2,3	3,9	0,8	6	0,06
K90O 2,5/3,5		M3,5						
K90O 2,5/4		M4					8	0,08
K90O 2,5/5		M5					10	0,09
K90O 2,5/6		M6					11	0,11
K90O 2,5/8		M8					14	0,13
K90O 2,5/10		M10	–				18	0,17
K90O 2,5/12		M12						0,14
K90O 6/3,5	4,0÷6,0	M3,5	–	3,6	5,6	1,0	8	0,14
K90O 6/4		M4	√					
K90O 6/5		M5					10	0,16
K90O 6/6		M6					11	0,17
K90O 6/8		M8					14	0,21
K90O 6/10		M10					18	0,27
K90O 10/4	10	M4	–	4,5	6,7	1,1	10	0,24
K90O 10/5		M5	√					0,23
K90O 10/6		M6					11	
K90O 10/8		M8					14	0,28
K90O 10/10		M10					18	0,34
K90O 16/5	16	M5	√	5,8	8,2	1,2	11	0,38
K90O 16/6		M6						0,36
K90O 16/8		M8					14	0,42
K90O 16/10		M10					18	0,5
K90O 25/5	25	M5	√	7,5	10,5	1,5	12	0,72
K90O 25/6		M6						0,7
K90O 25/8		M8					16	0,77
K90O 25/10		M10					18	0,8

Type	Cross-section [mm²]	Screw hole	DIN	d	D	s	W	Weight [kg]
K90O 35/6	35	M6	√	9,0	12,2	1,6	15	1
K90O 35/8		M8					16	0,97
K90O 35/10		M10					18	0,98
K90O 50/6	50	M6	√	11,0	14,6	1,8	18	1,65
K90O 50/8		M8						1,75
K90O 50/10		M10						1,63

Angle ring terminals K45O type

FEATURES & BENEFITS

- ring terminal, Cu, as per DIN, however the connection fin is bended at 45 degrees relative to the terminal part crimped on the wire
- description of cable cross-section and terminal size on fin surface

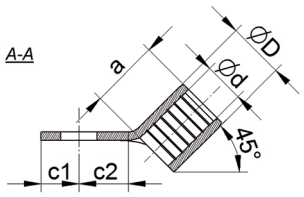


LOGISTIC DATA

Quantity in package [pcs]	100

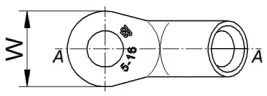
MECHANICAL DATA

Material	Cu
Covering	tin-plated



CERTIFICATES & STANDARDS

Design	DIN 46234 - before fin bending



NOTE!

Use tools as for KO terminals.

Bending can be made at different angle.

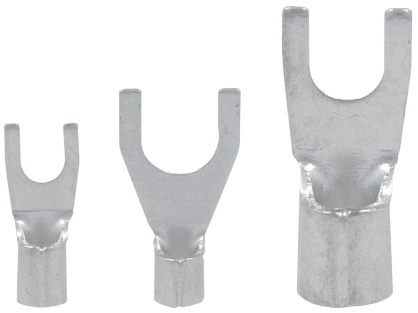
Type	Cross-section [mm²]	Screw hole	DIN	d	D	s	a	W	Weight [kg]
K45O 1/2,5	0,75÷1,0	M2,5	√	1,6	3,2	0,8	5	6	0,06
K45O 1/3		M3							
K45O 1/3,5		M3,5							
K45O 1/4		M4						8	0,07
K45O 1/5		M5						10	0,08
K45O 1/6		M6	–						0,07
K45O 1/8		M8						14	0,12
K45O 1/10		M10							0,1
K45O 2,5/3	1,5÷2,5	M3	√	2,3	3,9	0,8	5	6	0,06
K45O 2,5/3,5		M3,5							
K45O 2,5/4		M4						8	0,08
K45O 2,5/5		M5						10	0,09
K45O 2,5/6		M6						11	0,11
K45O 2,5/8		M8						14	0,13
K45O 2,5/10		M10	–					18	0,17
K45O 2,5/12		M12							0,14
K45O 6/3,5	4,0÷6,0	M3,5	√	3,6	5,6	1,0	6	8	0,14
K45O 6/4		M4							
K45O 6/5		M5						10	0,16
K45O 6/6		M6						11	0,17
K45O 6/8		M8						14	0,21
K45O 6/10		M10						18	0,27
K45O 10/4	10	M4	–	4,5	6,7	1,1	8	10	0,24
K45O 10/5		M5	√						0,23
K45O 10/6		M6						11	
K45O 10/8		M8						14	0,28
K45O 10/10		M10						18	0,34
K45O 16/5	16	M5	√	5,8	8,2	1,2	10	11	0,38
K45O 16/6		M6							0,36
K45O 16/8		M8						14	0,42
K45O 16/10		M10						18	0,5
K45O 25/5	25	M5	√	7,5	10,5	1,5	11	12	0,72
K45O 25/6		M6							0,7
K45O 25/8		M8						16	0,77
K45O 25/10		M10						18	0,8

Type	Cross-section [mm²]	Screw hole	DIN	d	D	s	a	W	Weight [kg]
K45O 35/6	35	M6	√	9,0	12,2	1,6	12	15	1
K45O 35/8		M8						16	0,97
K45O 35/10		M10						18	0,98
K45O 50/6	50	M6	√	11,0	14,6	1,8	16	18	1,65
K45O 50/8		M8							1,75
K45O 50/10		M10							1,63

Spade terminals, KW

FEATURES & BENEFITS

- spade terminal Cu, as per DIN - low-cost and popular solution
- description of cable cross-section and terminal size on fin surface



MECHANICAL DATA

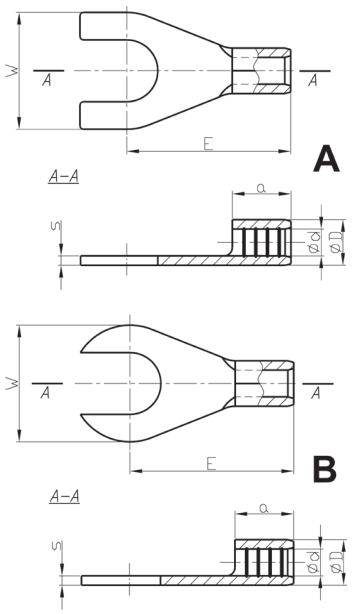
Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

UL certificate	E475284
Design	DIN 46234 – concerns only the tubular part

NOTE!

UL certificate - for up-to-date information, visit www.ergom.com



Type	Cross-section [mm²]	Screw hole	Design	DIN	UL	d	D	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KW 0,5/2	0,1÷0,5	M 2	A	√	–	1,0	2,0	0,5	4	8,0	5,0	100	0,02
KW 0,5/3		M 3								11,0	6,0		
KW 0,5/3,5		M 3,5									6,5		0,03
KW 0,5/4		M 4											
KW 0,5/5		M 5									8,0		0,04
KW 1/2,5	0,75÷1	M 2,5			√	1,6	3,2	0,8	5		6,0		0,06
KW 1/3		M 3											
KW 1/3,5		M 3,5											
KW 1/4		M 4								12,0	8,0		0,07
KW 1/4 W				–							6,9		0,06
KW 1/5		M 5		√						13,0	10,0		0,08
KW 1/6		M 6											0,07
KW 1/8	0,75÷1	M 8	B	√	√	1,6	3,2	0,8	5	14,2	14,0	100	0,1
KW 1/10		M 10								17,3			0,14
KW 2,5/3	1,5÷2,5	M 3	A	√	√	2,3	3,9	0,8	5	11,0	6,0	100	0,06
KW 2,5/3,5		M 3,5											
KW 2,5/4		M 4								12,0	8,0		0,07
KW 2,5/4 W				–							6,9		
KW 2,5/5		M 5		√						14,0	10,0		0,09
KW 2,5/6		M 6								16,0	11,0		0,1
KW 2,5/8		M 8								14,2	14,0		0,12
KW 2,5/10	1,5÷2,5	M 10	B	–	√	2,3	3,9	0,8	5	17,3	17,5	100	0,14
KW 2,5/12		M 12								19,7	20,0		0,11

Type	Cross-section [mm²]	Screw hole	Design	DIN	UL	d	D	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KW 6/3,5	4÷6	M 3,5	A	–	√	3,6	5,6	1,0	6	14,0	8,0	100	0,14
KW 6/4		M 4		√									
KW 6/5		M 5								15,0	10,0		0,16
KW 6/6		M 6								16,0	11,0		
KW 6/8		M 8								19,0	14,0		0,2
KW 6/10	4÷6	M 10	B	√	√	3,6	5,6	1,0	6	21,0	18,0	100	0,23
KW 10/5	10	M 5				4,5	6,7	1,1	8	16,0	10,0	100 / 10	0,22 / 0,03
KW 10/6		M 6								17,0	11,0		
KW 10/8		M 8								20,0	14,0		0,26 / 0,03
KW 10/10		M 10								21,0	18,0		0,31 / 0,04
KW 16/5	16	M 5				5,8	8,2	1,2	10	20,0	11,0		0,37 / 0,04
KW 16/6		M 6											0,35 / 0,04
KW 16/8		M 8								22,0	14,0		0,46 / 0,05
KW 16/10		M 10								24,0	18,0		

Pin terminals, KI type

FEATURES & BENEFITS

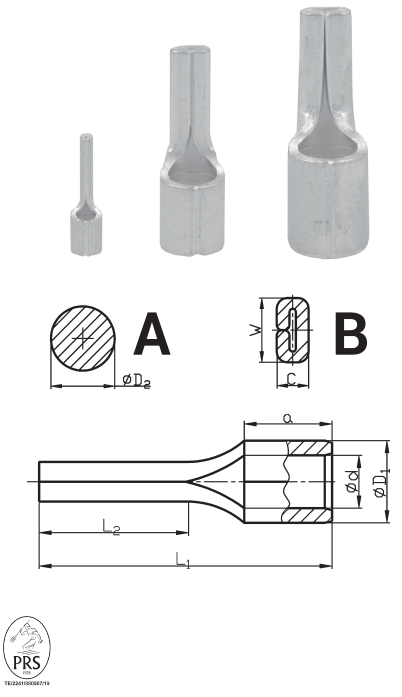
pin terminal Cu, as per DIN - low-cost and popular solution

MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

Design	DIN 46230 – concerns only the tubular part

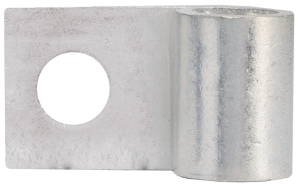


Type	Cross-section [mm²]	Design	DIN	d	D_1	D_2	L_1	L_2	a	C	W	Quantity in package [pcs]	Weight [kg]
KI 0,5-10	0,2÷0,5	A	√	1	2,2	1,4	14	10	4	–	–	100	0,02
KI 1-10	0,5÷1	A	√	1,6	3,4	1,9	14,8	10	4,8	–	–	100	0,05
KI 1-12							16,8	12					0,06
KI 1-16							20,8	16					
KI 2,5-10	1,5÷2,5	A	√	2,3	4,1	1,9	14,8	10	4,8	–	–	100	0,06
KI 2,5-12							16,8	12					
KI 2,5-16							21	16					0,07
KI 6-14	4÷6	A	√	3,6	5,6	2,7	20	14	6	–	–	100	0,13
KI 10-12	10	B	√	4,5	6,9	–	22	12	8	2,4	4,3	100 / 10	0,25 / 0,03
KI 16-13	16	B	√	5,8	8,4	–	26	13	10	2,6	5,5	100 / 10	0,43 / 0,05
KI 25-15	25	B	–	7	9,5	–	33,5	15	13,5	2,6	6,8	100 / 10	0,67 / 0,07
KI 35-20	35	B	–	8,4	11,8	–	40,5	20	16	3,2	8	50 / 10	0,77 / 0,16
KI 50-20	50	B	–	9,6	13,6	–	45	20	19	3,8	9,5	50 / 10	0,95 / 0,19
KI 70-23,5	70	B	–	11,4	15,8	–	55	23,5	24	4,2	11	50 / 10	1,5 / 0,3
KI 95-23,5	95	B	–	13,5	18,9	–	55	23,5	24	5,2	12,5	50 / 10	2,16 / 0,44

Flag terminals KOF type

FEATURES & BENEFITS

- terminal with connection fin perpendicular to the terminal part crimped on the wire cores
- solution for special applications

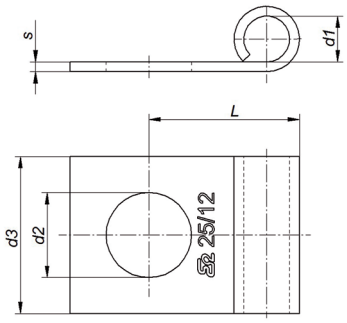


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	Cu
Covering	tin-plated
DIN	–

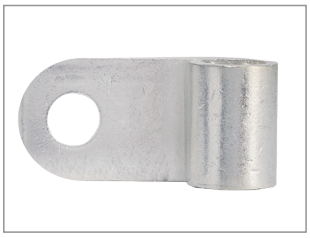


NOTE!

We ensure the selection of the right tool.

Other designs on request.

Type	Cross-section [mm²]	Screw hole	d_1	d_2	d_3	L	s	Weight [kg]
KOF 10/5	10	M5	5,0	5,3	10,5	20	1,2	1,95
KOF 10/6		M6		6,5		17		1,98
KOF 10/8		M8		8,4	17,0			2,05
KOF 16/6	16	M6	5,5	6,5	16,0	19	1,2	2,25
KOF 16/8		M8		8,4				2,2
KOF 16/10		M10		10,5	21,0	20		2,15
KOF 16/12		M12		13,0				3,7
KOF 25/6	25	M6	7,0	6,5	18,0	21	1,5	2,45
KOF 25/8		M8		8,4		23		2,4
KOF 25/10		M10		10,5	24,0			2,32
KOF 35/8	35	M8	8,5	8,4	20,0	23	1,7	2,65
KOF 35/10		M10		10,5		26		2,6
KOF 35/12		M12		13,0				2,55
KOF 50/8	50	M8	10,0	8,4	23,0	30	2,0	3,65
KOF 50/10		M10		10,5				2,82
KOF 50/12		M12		13,0		28		2,85
KOF 70/8	70	M8	12,0	8,4	26,0	32	2,5	3,22
KOF 70/10		M10		10,5				3,28
KOF 70/12		M12		13,0		33		3,31
KOF 95/12	95	M12	13,5	13,0	27,0	36	2,5	3,78
KOF 120/12	120	M12	15,0	13,0	27,0	40	3,0	4,05
KOF 150/12	150	M12	17,0	13,0	30,0	40	3,2	4,25
KOF 150/16		M16		17,0				4,3



Variant on request

“Butt splice” compression connectors , KL type

FEATURES & BENEFITS

- connector Cu, with galvanic tin plating, to make “butt splice” cable connections
- central stamping guarantees correct length of conductor insertion

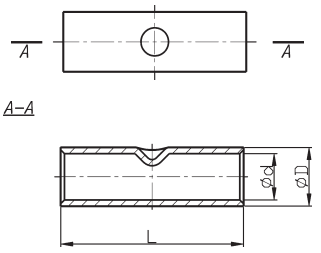


LOGISTIC DATA

Quantity in package [pcs]	100 / 25

MECHANICAL DATA

Material	Cu
Covering	tin-plated



CRIMPING SHAPE

Number of crimping - narrow	1-1

CERTIFICATES & STANDARDS

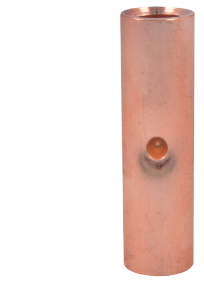
Design	standard

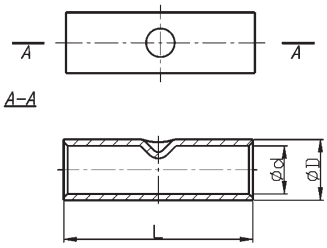
Type	Cross-section [mm²]	L	d	D	Weight [kg]
KL 0,75-12	0,5÷0,75	12	1,3	2,8	0,07 / 0,02
KL 1,5-15	1÷1,5	15	1,8	3,3	0,08 / 0,02
KL 1,5-20		20			0,11 / 0,03
KL 2,5-15	2,5	15	2,3	4,2	0,11 / 0,03
KL 2,5-20		20			0,18 / 0,05
KL 4-15	4	15	3	5	0,17 / 0,05
KL 4-20		20			0,23 / 0,06
KL 6-20	6	20	4	6	0,28 / 0,08
KL 6-25		25			0,3 / 0,1

“Butt splice” connectors, ZM type

FEATURES & BENEFITS

- connector, Cu, without galvanic tin plating, to make “butt splice” cable connections
- central stamping enables correct length of conductor insertion





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	Cu
Covering	uncoated

CRIMPING SHAPE

Number of crimping - narrow	1-1

CERTIFICATES & STANDARDS

Design	standard

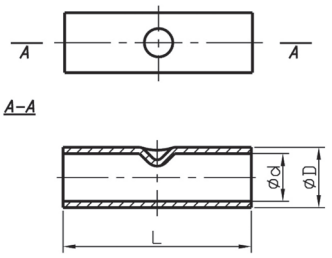
Type	Cross-section [mm²]	L	d	D	Weight [kg]
ZM 0,75-12	0,5÷0,75	12	1,3	2,8	0,07
ZM 1,5-15	1÷1,5	15	1,8	3,3	0,08
ZM 1,5-20		20			0,11
ZM 2,5-15	2,5	15	2,3	4,2	0,11
ZM 2,5-20		20			0,18
ZM 4-15	4	15	3	5	0,17
ZM 4-20		20			0,23
ZM 6-20	6	20	4	6	0,28
ZM 6-25		25			0,3

Low-cost “butt splice” connectors, LE type

FEATURES & BENEFITS

- connector, Cu, with galvanic tin plating, to make “butt splice” cable connections
- central stamping enables correct length of conductor insertion
- low-cost solution





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	Cu
Covering	tin-plated

CRIMPING SHAPE

Number of crimping - narrow	1-1

CERTIFICATES & STANDARDS

Design	economical

Type	Cross-section [mm²]	L	d	D	Number of crimping - wide	Weight [kg]
LE 1-20	1	20	1,7	3,3	-	0,09
LE 0,5-12	0,1÷0,5	12	1,2	2	-	0,07
LE 1-15	1	15	1,7	3,3	-	0,08
LE 2,5-15	1,5÷2,5	15	2,4	4	-	0,1
LE 2,5-20		20				0,14
LE 6-20	4÷6	20	3,6	5,5	1-1	0,18
LE 6-25		25				0,27

“Parallel compression” connectors, KLZ

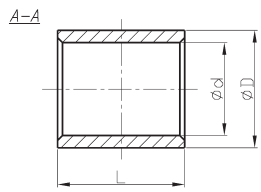
FEATURES & BENEFITS

- connector Cu, with galvanic tin plating, to make “parallel compression” cable connections



LOGISTIC DATA

Quantity in package [pcs]	100



MECHANICAL DATA

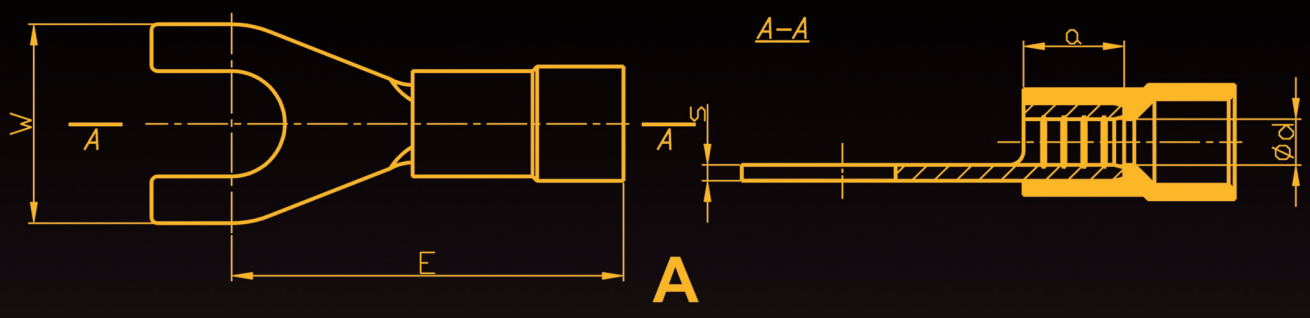
Material	Cu
Covering	tin-plated

CRIMPING SHAPE

Number of crimping - narrow	1-1

Type	Cross-section [mm²]	L	d	D	Weight [kg]
KLZ 1	0,5÷1	8	1,6	3,2	0,05
KLZ 2,5	1÷2,5	8	2,3	3,9	0,06
KLZ 6	4÷6	9	3,6	5,6	0,11
KLZ 10	10	10	4,5	6,7	0,15

ERGOM®





Cable terminals - insulated

Cable terminals - insulated - polyamide (PA)

Insulated ring terminals, KOI type	137
Insulated spade terminals, KWI	139
Insulated pin terminals, KII type	141
Insulated “butt splice” connectors, KLI type	142

Cable terminals - insulated - polycarbonate (PC)

Insulated ring terminals, KOI...PC type	143
Insulated spade terminals, KWI...PC	145
Insulated pin terminals, KII...PC type	146
Insulated “butt splice” connectors, KLI...PC type	147

Cable terminals - insulated - polyvinyl chloride (PVC)

Insulated ring terminals, KOI...PCV type	148
Insulated spade terminals, KWI...PCV	149
Insulated pin terminals, KII...PCV type	150
Insulated “butt splice” connectors, KLI...PCV type	151

Cable terminals - insulated - heat-shrink insulation

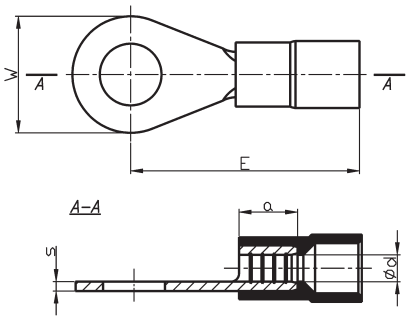
Ring terminals in heat-shrink insulation, KOIT type	152
Insulated spade terminals in heat-shrink insulation, KWIT type	153
“Butt splice” connectors in heat-shrink insulation, KLIT type	154

Insulated ring terminals, KOI type

FEATURES & BENEFITS

- ring terminal Cu, as per DIN, with polyamide insulating sleeve, marked with screw size and cable cross-section
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification





MECHANICAL DATA

Insulation	polyamide 6.6
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

CERTIFICATES & STANDARDS

Certifications	IEN only 0,5 - 95 mm²
Design	DIN 46237

NOTE!

Spooled terminals - for details, visit www.ergom.com.

UL certificate - for up-to-date information, visit www.ergom.com.

Type	Cross-section [mm²]	Insulation colour	Screw hole	DIN	d	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KOI 0,5/2	0,1÷0,5	yellow	M 2	–	1,0	0,5	4	14	5	100 / 25	0,03 / 0,01
KOI 0,5/2,5			M 2,5								
KOI 0,5/3			M 3								
KOI 0,5/3,5			M 3,5					16	6		
KOI 0,5/4			M 4						6,5		
KOI 0,5/5			M 5						8		0,04 / 0,01
KOI 1/2,5	0,75÷1	red	M 2,5	√	1,6	0,8	5	16	6	100 / 25	0,07 / 0,02
KOI 1/3			M 3								
KOI 1/3,5			M 3,5								
KOI 1/4			M 4					17	8		0,08 / 0,02
KOI 1/5			M 5					18	10		0,09 / 0,03
KOI 1/6			M 6	–							
KOI 1/8			M 8					22	14		0,14 / 0,04
KOI 1/10			M 10								0,11 / 0,03
KOI 2,5/3	1,5÷2,5	blue	M 3	√	2,3	0,8	5	17	6	100 / 25	0,08 / 0,02
KOI 2,5/3,5			M 3,5								
KOI 2,5/4			M 4					18	8		0,09 / 0,03
KOI 2,5/5			M 5					20	10		0,11 / 0,03
KOI 2,5/6			M 6					22	11		0,12 / 0,03
KOI 2,5/8			M 8					23	14		0,15 / 0,04
KOI 2,5/10			M 10	–				24	18		0,19 / 0,05
KOI 2,5/12			M 12								0,2 / 0,05
KOI 2,5/16			M 16					32	27		0,35 / 0,08
KOI 6/3,5	4÷6	yellow	M 3,5	–	3,6	1,0	6	20	8	100 / 25	0,17 / 0,05
KOI 6/4			M 4	√							0,16 / 0,05
KOI 6/5			M 5					21	10		0,19 / 0,05
KOI 6/6			M 6					22	11		
KOI 6/8			M 8					25	14		0,24 / 0,06
KOI 6/10			M 10					27	18		0,3 / 0,08
KOI 6/12			M 12	–							0,24 / 0,07

Type	Cross-section [mm²]	Insulation colour	Screw hole	DIN	d	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KOI 10/4	10	red	M 4	–	4,5	1,1	8	24	10	100 / 10	0,28 / 0,03
KOI 10/5			M 5								0,27 / 0,03
KOI 10/6			M 6					25	11		
KOI 10/8			M 8					28	14		0,33 / 0,04
KOI 10/10			M 10					29	18		0,39 / 0,04
KOI 10/12			M 12					31	22		0,37 / 0,04
KOI 16/5	16	blue	M 5	–	5,8	1,2	10	30	11	100 / 10	0,48 / 0,05
KOI 16/6			M 6								0,47 / 0,05
KOI 16/8			M 8					32	14		0,51 / 0,06
KOI 16/10			M 10					34	18		0,7 / 0,07
KOI 16/12			M 12					36	22		0,67 / 0,07
KOI 25/5	25	yellow	M 5	–	7,5	1,5	11	36	12	100 / 10	0,85 / 0,09
KOI 25/6			M 6								0,82 / 0,09
KOI 25/8			M 8						16		0,89 / 0,09
KOI 25/10			M 10					37	18		0,9 / 0,09
KOI 25/12			M 12					42	22		1,1 / 0,11
KOI 25/16			M 16					46	28		
KOI 35/6	35	red	M 6	–	9,0	1,6	12	38	15	100 / 10	1,15 / 0,12
KOI 35/8			M 8						16		
KOI 35/10			M 10					39	18		1,17 / 0,12
KOI 35/12			M 12					43	22		1,35 / 0,14
KOI 35/16			M 16					48	28		1,6 / 0,16
KOI 50/6	50	blue	M 6	–	11,0	1,8	16	50	18	100 / 10	2 / 0,2
KOI 50/8			M 8								
KOI 50/10			M 10								1,96 / 0,2
KOI 50/12			M 12					52	22		2,15 / 0,3
KOI 50/16			M 16					56	28	100	2,5
KOI 70/6	70	yellow	M 6	–	13,0	2,0	18	54	22	100	3
KOI 70/8			M 8							100 / 10	3 / 0,3
KOI 70/10			M 10								2,9 / 0,3
KOI 70/12			M 12								2,85 / 0,3
KOI 70/16			M 16					58	28		3,1 / 0,31
KOI 95/8	95	red	M 8	–	15,0	2,5	20	58	24	100 / 10	4,53 / 0,5
KOI 95/10			M 10								4,44 / 0,5
KOI 95/12			M 12								4,3 / 0,5
KOI 95/16			M 16					60	28		4,3 / 0,43
KOI 120/8	120	blue	M 8	–	16,5	3,0	22	60	24	50 / 10	3,2 / 0,4
KOI 120/10			M 10								3,1 / 0,4
KOI 120/12			M 12								3,1 / 0,62
KOI 120/16			M 16					64	28		3,4 / 0,68

Insulated spade terminals, KWI

FEATURES & BENEFITS

- spade terminal Cu, as per DIN, with polyamide insulating sleeve, marked with screw size and cable cross-section
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification



MECHANICAL DATA

Insulation	polyamide 6.6
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

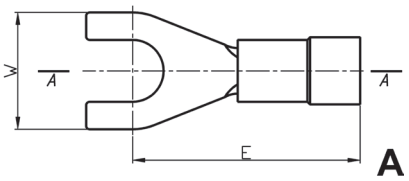
CERTIFICATES & STANDARDS

Design	DIN 46237 – concerns only the tubular part

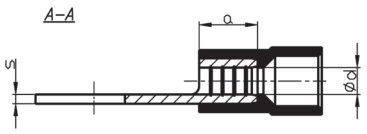
NOTE!

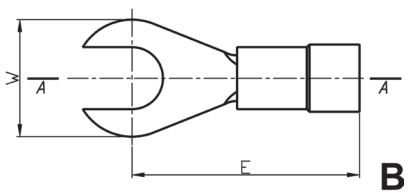
Spooled terminals - for details, visit www.ergom.com.

UL certificate - for up-to-date information, visit www.ergom.com.

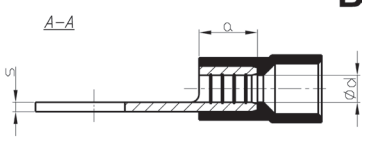


A





B



Type	Cross-section [mm²]	Insulation colour	Screw hole	Design	DIN	d	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KWI 0,5/2	0,1÷0,5	yellow	M 2	A	–	1,0	0,5	4	14,0	5,0	100	0,03
KWI 0,5/3			M 3									
KWI 0,5/3,5			M 3,5						16,0	6,0		
KWI 0,5/4			M 4							6,5		
KWI 0,5/5			M 5							8,0		0,04
KWI 1/2,5	0,75÷1	red	M 2,5	A	√	1,6	0,8	5		6,0		0,07
KWI 1/3			M 3									
KWI 1/3,5			M 3,5									0,08
KWI 1/4			M 4						17,0	8,0		
KWI 1/4 W					–					6,9		0,07
KWI 1/5			M 5		√				18,0	10,0		0,09
KWI 1/6			M 6		–							
KWI 1/8	0,75÷1	red	M 8	B	–	1,6	0,8	5	19,2	14,0	100	0,12
KWI 1/10			M 10						22,3			0,11
KWI 2,5/3	1,5÷2,5	blue	M 3	A	√	2,3	0,8	5	17,0	6,0	100	0,08
KWI 2,5/3,5			M 3,5									
KWI 2,5/4			M 4		–				18,0	8,0		0,09
KWI 2,5/4 W										6,9		0,08
KWI 2,5/5			M 5		√				20,0	10,0		0,11
KWI 2,5/6			M 6						22,0	11,0		0,12
KWI 2,5/8	1,5÷2,5	blue	M 8	B	–	2,3	0,8	5	20,2	14,0	100	0,13
KWI 2,5/10			M 10						23,3	18,0		0,16
KWI 2,5/12			M 12						25,7			0,13

Type	Cross-section [mm²]	Insulation colour	Screw hole	Design	DIN	d	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KWI 6/3,5	4÷6	yellow	M 3,5	A	–	3,6	1,0	6	20,0	8,0	100	0,17
KWI 6/4			M 4		√							0,16
KWI 6/5			M 5						21,0	10,0		0,18
KWI 6/6			M 6						22,0	11,0		
KWI 6/8			M 8						25,0	14,0		0,23
KWI 6/10	4÷6	yellow	M 10	B	√	3,6	1,0	6	27,0	18,0	100	0,27
KWI 10/5	10	red	M 5		–	4,5	1,1	8	24	10	100 / 10	0,26 / 0,03
KWI 10/6			M 6						25	11		0,27 / 0,03
KWI 10/8			M 8						28	14		0,3 / 0,03
KWI 10/10			M 10						29	18		0,36 / 0,04
KWI 16/5	16	blue	M 5			5,8	1,2	10	30	11		0,45 / 0,05
KWI 16/6			M 6									0,44 / 0,05
KWI 16/8			M 8						34	18		0,49 / 0,05
KWI 16/10			M 10									0,55 / 0,06

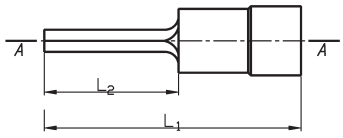
Insulated pin terminals, KII type

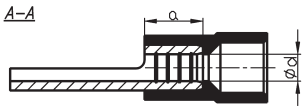
FEATURES & BENEFITS

- pin terminal Cu, as per DIN, with polyamide insulating sleeve, marked with cable cross-section on fin
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification









MECHANICAL DATA

Insulation	polyamide 6.6
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

CERTIFICATES & STANDARDS

Design	DIN 46231 – concerns only the tubular part

Type	Cross-section [mm²]	Insulation colour	Design	DIN	d	L_1	L_2	a	D_2	C	W	Quantity in package [pcs]	Weight [kg]
KII 0,5-8	0,1÷0,5	yellow	A	√	1,0	18,0	8,0	4,0	1,4	–	–	100	0,03
KII 1-10	0,75÷1,0	red	A	√	1,6	21,0	10,0	4,8	1,9	–	–	100	0,08
KII 1-12						23,0	12,0						
KII 1-16						27,0	16,0						
KII 2,5-10	1,5÷2,5	blue	A	√	2,3	21,0	10,0	4,8	1,9	–	–	100	0,09
KII 2,5-12						23,0	12,0						
KII 2,5-16						27,0	16,0						
KII 6-14	4÷6	yellow	A	√	3,6	27,0	14,0	6,0	2,7	–	–	100	0,17
KII 10-12	10	red	B	–	4,5	30,0	14,5	8,0	–	2,4	4,5	100 / 10	0,34 / 0,04
KII 16-13	16	blue	B	–	5,8	41,0	13,0	10,0	–	2,6	5,5	100 / 10	0,51 / 0,06
KII 25-15	25	yellow	B	–	7,0	44,0	15,0	13,5	–	2,6	6,8	100 / 10	0,88 / 0,09
KII 35-20	35	red	B	–	8,4	52,5	20,0	16,0	–	3,2	8,0	100 / 10	1 / 0,1
KII 50-20	50	blue	B	–	9,6	61,0	20,0	19,0	–	3,8	9,5	100 / 10	1,25 / 0,13
KII 70-23	70	yellow	B	–	11,4	71,0	23,5	24,0	–	4,2	11,0	100 / 10	1,95 / 0,2
KII 95-23,5	95	red	B	–	13,5	71,0	23,5	24,0	–	5,0	12,5	100 / 10	2,8 / 0,28

Insulated “butt splice” connectors, KLI type

FEATURES & BENEFITS

- connector Cu, with polyamide insulation, to make “butt splice” cable connections
- central stamping guarantees correct length of conductor insertion
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification

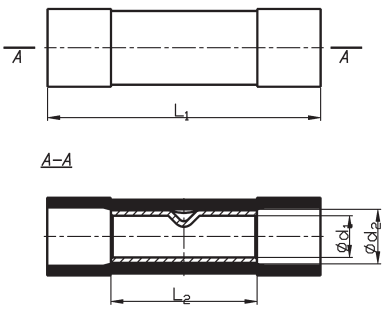


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyamide 6.6
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95



Type	Cross-section [mm²]	Insulation colour	L_1	L_2	d_1	d_2	Weight [kg]
KLI 0,5	0,2÷0,5	yellow	20,0	12	1,3	2,0	0,04
KLI 1	0,75÷1,0	red	27,3	15	1,7	3,2	0,11
KLI 2,5	1,5÷2,5	blue	27,3	15	2,3	3,8	0,14
KLI 6	4÷6	yellow	27,0	15	3,4	5,3	0,23

Insulated ring terminals, KOI...PC type

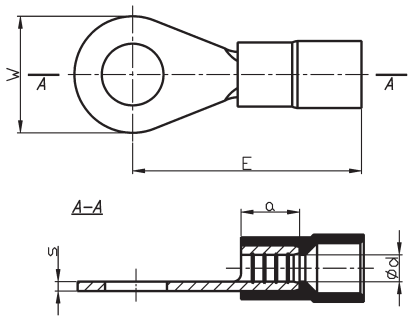
FEATURES & BENEFITS

- ring terminal Cu, as per DIN, with polycarbonate insulating sleeve, marked with screw size and cable cross-section
- to operate in wider temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification



MECHANICAL DATA

Insulation	polycarbonate
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-50 ÷ +120



CERTIFICATES & STANDARDS

Design	DIN 46237

Type	Cross-section [mm²]	Insulation colour	Screw hole	DIN	d	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KOI 1/2,5 PC	0,75÷1	red	M 2,5	√	1,6	0,8	5	16	6	100	0,07
KOI 1/3 PC			M 3								
KOI 1/3,5 PC			M 3,5								
KOI 1/4 PC			M 4					17	8		0,08
KOI 1/5 PC			M 5					18	10		0,09
KOI 1/6 PC			M 6	–							
KOI 1/8 PC			M 8					22	14		0,14
KOI 1/10 PC			M 10								0,11
KOI 2,5/3 PC	1,5÷2,5	blue	M 3	√	2,3	0,8	5	17	6	100	0,08
KOI 2,5/3,5 PC			M 3,5								
KOI 2,5/4 PC			M 4					18	8		0,09
KOI 2,5/5 PC			M 5					20	10		0,11
KOI 2,5/6 PC			M 6					22	11		0,12
KOI 2,5/8 PC			M 8					23	14		0,15
KOI 2,5/10 PC			M 10	–				24	18		0,19
KOI 2,5/12 PC			M 12								0,2
KOI 2,5/16 PC			M 16					32	27		0,35
KOI 6/3,5 PC	4÷6	yellow	M 3,5	–	3,6	1,0	6	20	8	100	0,17
KOI 6/4 PC			M 4	√							0,16
KOI 6/5 PC			M 5					21	10		0,19
KOI 6/6 PC			M 6					22	11		
KOI 6/8 PC			M 8					25	14		0,24
KOI 6/10 PC			M 10					27	18		0,3
KOI 6/12 PC			M 12	–							0,24
KOI 10/4 PC	10	red	M 4	–	4,5	1,1	8	24	10	100	0,28
KOI 10/5 PC			M 5								0,27
KOI 10/6 PC			M 6	√				25	11		
KOI 10/8 PC			M 8	–				28	14		0,33
KOI 10/10 PC			M 10					29	18		0,39
KOI 10/12 PC			M 12					31	22		0,37
KOI 16/5 PC	16	blue	M 5	–	5,8	1,2	10	30	11	100	0,48
KOI 16/6 PC			M 6								0,47
KOI 16/8 PC			M 8					32	14		0,51
KOI 16/10 PC			M 10					34	18		0,7
KOI 16/12 PC			M 12					36	22		0,67

Type	Cross-section [mm²]	Insulation colour	Screw hole	DIN	d	s	a	E	W	Quantity in package [pcs]	Weight [kg]
KOI 25/5 PC	25	yellow	M 5	–	7,5	1,5	11	36	12	100	0,85
KOI 25/6 PC			M 6								0,82
KOI 25/8 PC			M 8						16		0,89
KOI 25/10 PC			M 10					37	18		0,9
KOI 25/12 PC			M 12					42	22		1,1
KOI 25/16 PC			M 16					46	28		
KOI 35/6 PC	35	red	M 6	–	9,0	1,6	12	38	15	100	1,15
KOI 35/8 PC			M 8						16		
KOI 35/10 PC			M 10					39	18		1,17
KOI 35/12 PC			M 12					43	22		1,35
KOI 35/16 PC			M 16					48	28		1,6
KOI 50/6 PC	50	blue	M 6	–	11,0	1,8	16	50	18	100	2
KOI 50/8 PC			M 8								
KOI 50/10 PC			M 10								1,96
KOI 50/12 PC			M 12					52	22		2,15
KOI 50/16 PC			M 16					56	28		2,5
KOI 70/6 PC	70	yellow	M 6	–	13,0	2,0	18	54	22	100	3
KOI 70/8 PC			M 8								
KOI 70/10 PC			M 10								2,9
KOI 70/12 PC			M 12								2,85
KOI 70/16 PC			M 16					58	28		2,65
KOI 95/8 PC	95	red	M 8	–	15,0	2,5	20	58	24	100	4,53
KOI 95/10 PC			M 10								4,44
KOI 95/12 PC			M 12								4,3
KOI 95/16 PC			M 16					60	28		
KOI 120/8 PC	120	blue	M 8	–	16,5	3,0	22	60	24	50	3,2
KOI 120/10 PC			M 10								3,1
KOI 120/12 PC			M 12								
KOI 120/16 PC			M 16					64	28		3,4

Insulated spade terminals, KWI...PC

FEATURES & BENEFITS

- spade terminal Cu, as per DIN, with polycarbonate insulating sleeve, marked with screw size and cable cross-section
- to operate in wider temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification



LOGISTIC DATA

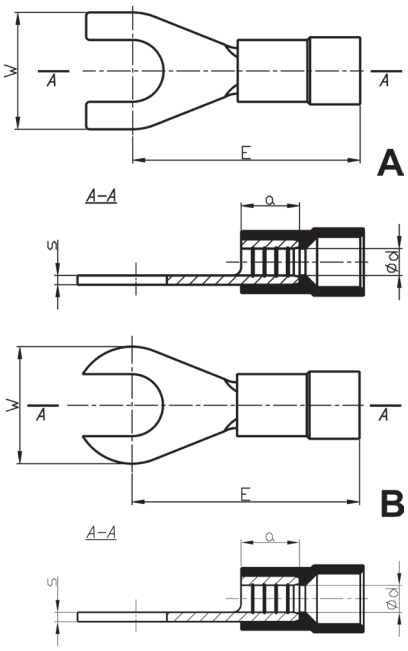
Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polycarbonate
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-50 ÷ +120

CERTIFICATES & STANDARDS

Design	DIN 46237 – concerns only the tubular part



Type	Cross-section [mm²]	Insulation colour	Screw hole	Design	DIN	d	s	a	E	W	Weight [kg]
KWI 1/2,5 PC	0,75÷1	red	M 2,5	A	√	1,6	0,8	5	16,0	6,0	0,07
KWI 1/3 PC			M 3								
KWI 1/3,5 PC			M 3,5								0,08
KWI 1/4 PC			M 4						17,0	8,0	
KWI 1/4 W PC					–					6,9	0,07
KWI 1/5 PC			M 5		√				18,0	10,0	0,09
KWI 1/6 PC			M 6		–						
KWI 1/8 PC	0,75÷1	red	M 8	B	–	1,6	0,8	5	19,2	14,0	0,12
KWI 1/10 PC			M 10						22,3		0,11
KWI 2,5/3 PC	1,5÷2,5	blue	M 3	A	√	2,3	0,8	5	17,0	6,0	0,08
KWI 2,5/3,5 PC			M 3,5								
KWI 2,5/4 PC			M 4						18,0	8,0	0,09
KWI 2,5/4 W PC					–					6,9	0,08
KWI 2,5/5 PC			M 5		√				20,0	10,0	0,11
KWI 2,5/6 PC			M 6						22,0	11,0	0,12
KWI 2,5/8 PC	1,5÷2,5	blue	M 8	B	√	2,3	0,8	5	20,2	14,0	0,13
KWI 2,5/10 PC			M 10		–				23,3	18,0	0,16
KWI 2,5/12 PC			M 12						25,7		0,13
KWI 6/3,5 PC	4÷6	yellow	M 3,5	A	√	3,6	1,0	6	20,0	8,0	0,17
KWI 6/4 PC			M 4								0,16
KWI 6/5 PC			M 5						21,0	10,0	0,18
KWI 6/6 PC			M 6						22,0	11,0	
KWI 6/8 PC			M 8						25,0	14,0	0,23

Type	Cross-section [mm²]	Insulation colour	Screw hole	Design	DIN	d	s	a	E	W	Weight [kg]
KWI 6/10 PC	4÷6	yellow	M 10	B	√	3,6	1,0	6	27,0	18,0	0,27
KWI 10/5 PC	10	red	M 5	B	–	4,5	1,1	8	24	10	0,26
KWI 10/6 PC			M 6						25	11	0,27
KWI 10/8 PC			M 8						28	14	0,3
KWI 10/10 PC			M 10						29	18	0,36
KWI 16/5 PC	16	blue	M 5			5,8	1,2	10	30	11	0,45
KWI 16/6 PC			M 6								0,44
KWI 16/8 PC			M 8						34	18	0,49
KWI 16/10 PC			M 10								0,55

Insulated pin terminals, KII...PC type

FEATURES & BENEFITS

- pin terminal Cu, as per DIN, with polycarbonate insulating sleeve, marked with cable cross-section
- to operate in wider temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification

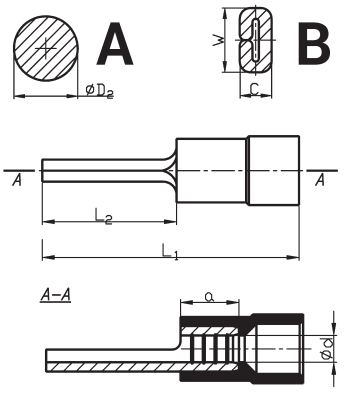


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polycarbonate
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-50 ÷ +120



CERTIFICATES & STANDARDS

Design	DIN 46231 – concerns only the tubular part

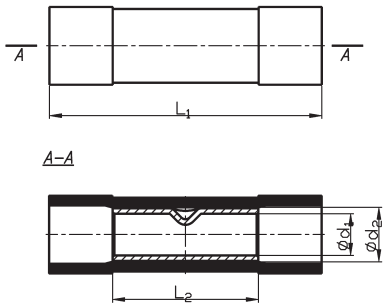
Type	Cross-section [mm²]	Insulation colour	Design	DIN	d	L_1	L_2	a	D_2	C	W	Weight [kg]
KII 1-10 PC	0,75÷1,0	red	A	√	1,6	21,0	10,0	4,8	1,9	–	–	0,08
KII 1-12 PC						23,0	12,0					
KII 1-16 PC						27,0	16,0					
KII 2,5-10 PC	1,5÷2,5	blue	A	√	2,3	21,0	10,0	4,8	1,9	–	–	0,09
KII 2,5-12 PC						23,0	12,0					
KII 2,5-16 PC						27,0	16,0					
KII 6-14 PC	4÷6	yellow	A	√	3,6	27,0	14,0	6,0	2,7	–	–	0,17
KII 10-12 PC	10	red	B	–	4,5	34,0	12,0	8,0	–	2,4	4,5	0,34

Insulated “butt splice” connectors, KLI...PC type

FEATURES & BENEFITS

- connector Cu, with polycarbonate insulation, to make “butt splice” cable connections
- to operate in wider temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polycarbonate
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-50 ÷ +120

DIMENSIONS

L_2	15

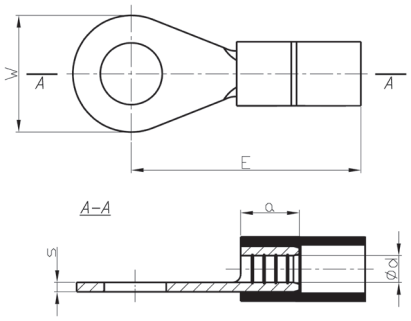
Type	Cross-section [mm²]	Insulation colour	L_1	d_1	d_2	Weight [kg]
KLI 1 PC	0,75÷1,0	red	25	1,7	4,0	0,11
KLI 2,5 PC	1,5÷2,5	blue	25	2,3	4,5	0,14
KLI 6 PC	4÷6	yellow	27	3,4	6,3	0,23

Insulated ring terminals, KOI...PCV type

FEATURES & BENEFITS

- ring terminal Cu, as per DIN, with polyamide insulating sleeve, marked with screw size and cable cross-section
- to operate in narrower temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

CERTIFICATES & STANDARDS

Design	DIN 46237

NOTE!

Non-soldered design in PVC insulation, on demand.

Type	Cross-section [mm²]	Insulation colour	Screw hole	DIN	d	s	a	E	W	Weight [kg]
KOI 1/2,5 PCV	0,5÷1	red	M 2,5	√	1,6	0,8	5	16	6	0,07
KOI 1/3 PCV			M 3							
KOI 1/3,5 PCV			M 3,5							
KOI 1/4 PCV			M 4					17	8	0,08
KOI 1/5 PCV			M 5					18	10	0,1
KOI 1/6 PCV			M 6	–						0,09
KOI 1/8 PCV			M 8					22	14	0,14
KOI 1/10 PCV			M 10							
KOI 2,5/3 PCV	1,5÷2,5	blue	M 3	√	2,3	0,8	5	17	6	0,09
KOI 2,5/3,5 PCV			M 3,5							0,08
KOI 2,5/4 PCV			M 4					18	8	0,1
KOI 2,5/5 PCV			M 5					20	10	0,12
KOI 2,5/6 PCV			M 6					22	11	0,13
KOI 2,5/8 PCV			M 8					23	14	0,16
KOI 2,5/10 PCV			M 10	–				24	18	0,15
KOI 2,5/12 PCV			M 12							0,19
KOI 2,5/16 PCV			M 16					30	27	0,16
KOI 6/3,5 PCV	4÷6	yellow	M 3,5	–	3,6	1,0	6	20	8	0,17
KOI 6/4 PCV			M 4	√						
KOI 6/5 PCV			M 5					21	10	0,19
KOI 6/6 PCV			M 6					22	11	0,2
KOI 6/8 PCV			M 8					25	14	0,25
KOI 6/10 PCV			M 10					27	18	0,32
KOI 6/12 PCV			M 12	–						0,3

Insulated spade terminals, KWI...PCV

FEATURES & BENEFITS

- spade terminal Cu, with polyamide insulating sleeve, marked with screw size and cable cross-section
- to operate in narrower temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification



LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

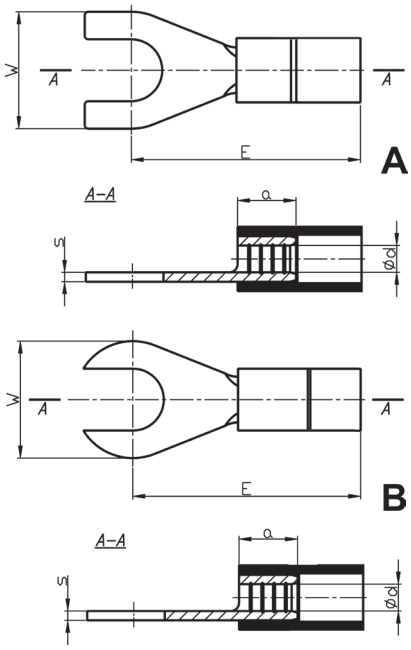
Insulation	polyvinyl chloride (PCV)
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

CERTIFICATES & STANDARDS

Design	DIN 46237 – concerns only the tubular part

NOTE!

Non-soldered design in PVC insulation, on demand.



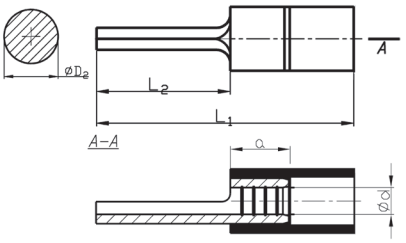
Type	Cross-section [mm²]	Insulation colour	Screw hole	Design	DIN	d	s	a	E	W	Weight [kg]
KWI 1/2,5 PCV	0,5÷1	red	M2,5	A	√	1,6	0,8	5	16,0	6,0	0,08
KWI 1/3 PCV			M3								0,07
KWI 1/3,5 PCV			M3,5								
KWI 1/4 PCV			M4						17,0	8,0	0,08
KWI 1/4 W PCV					–					6,9	
KWI 1/5 PCV			M5		√				18,0	10,0	0,09
KWI 1/6 PCV			M6		–						
KWI 1/8 PCV	0,5÷1	red	M8	B	–	1,6	0,8	5	19,2	14,0	0,12
KWI 1/10 PCV			M10						22,3		0,1
KWI 2,5/3 PCV	1,5÷2,5	blue	M3	A	√	2,3	0,8	5	17,0	6,0	0,09
KWI 2,5/3,5 PCV			M3,5								0,08
KWI 2,5/4 PCV			M4						18,0	8,0	0,09
KWI 2,5/4 W PCV					–					6,9	0,08
KWI 2,5/5 PCV			M5		√				20,0	10,0	0,11
KWI 2,5/6 PCV			M6						22,0	11,0	0,12
KWI 2,5/8 PCV	1,5÷2,5	blue	M8	B	√	2,3	0,8	5	20,2	14,0	0,13
KWI 2,5/10 PCV			M10		–				23,3	17,5	0,16
KWI 2,5/12 PCV			M12						25,7	20,0	0,13
KWI 6/3,5 PCV	4÷6	yellow	M3,5	A	√	3,6	1,0	6	20,0	8,0	0,17
KWI 6/4 PCV			M4								
KWI 6/5 PCV			M5						21,0	10,0	0,18
KWI 6/6 PCV			M6						22,0	11,0	
KWI 6/8 PCV			M8						25,0	14,0	0,22
KWI 6/10 PCV	4÷6	yellow	M10	B	√	3,6	1,0	6	27,0	18,0	0,29

Insulated pin terminals, KII...PCV type

FEATURES & BENEFITS

- pin terminal Cu, as per DIN, with PVC insulating sleeve, marked with cable cross-section
- to operate in narrower temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60
DIN	√

CERTIFICATES & STANDARDS

Design	DIN 46231 – concerns only the tubular part

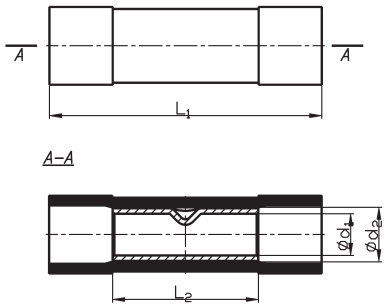
Type	Cross-section [mm²]	Insulation colour	d	L_1	L_2	a	D_2	Weight [kg]
KII 0,5-8 PCV	0,2÷0,5	yellow	1,0	18	10	–	1,4	0,06
KII 1-10 PCV	0,5÷1,0	red	1,6	20	10	4,8	1,9	0,08
KII 1-12 PCV				22	12			
KII 1-16 PCV				26	16			
KII 2,5-10 PCV	1,5÷2,5	blue	2,3	20	10	4,8	1,9	0,09
KII 2,5-12 PCV				22	12			
KII 2,5-16 PCV				26	16			

Insulated “butt splice” connectors, KLI...PCV type

FEATURES & BENEFITS

- connector Cu, with polyamide insulation, to make “butt splice” cable connections
- to operate in narrower temperature ranges than terminals with polyamide insulation
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

DIMENSIONS

L_2	15

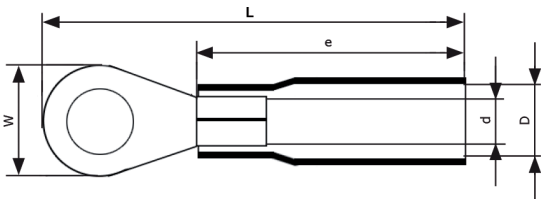
Type	Cross-section [mm²]	Insulation colour	L_1	d_1	d_2	Weight [kg]
KLI 1 PCV	0,75÷1,0	red	25	1,7	4,3	0,11
KLI 2,5 PCV	1,5÷2,5	blue	26,5	2,4	4,8	0,14
KLI 6 PCV	4÷6	yellow	26,5	3,6	6,5	0,23

Ring terminals in heat-shrink insulation, KOIT type

FEATURES & BENEFITS

- ring terminal Cu, as per DIN, with heat-shrink insulating sleeve with adhesive, marked with screw size and cable cross-section
- heat-shrink insulation; enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	high-density PE heat-shrink sleeve
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-55 ÷ +105
Shrink temperature [°C]	≥ 180

CERTIFICATES & STANDARDS

Design	copper part of terminals acc. to DIN 46234 sizes

NOTE!

Other designs on request.

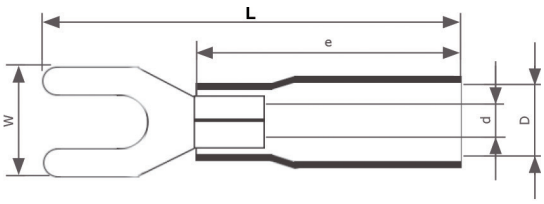
Type	Cross-section [mm²]	Insulation colour	Screw hole	L	d	D	e	W	Weight [kg]
KOIT 1/4	0,5÷1	red	M4	28	1,6	4,8	21	8,0	0,08
KOIT 1/5			M5	30				9,5	0,09
KOIT 2,5/4	1,5÷2,5	blue	M4	28	2,2	5,8	21	8,5	0,09
KOIT 2,5/5			M5	30				9,5	0,1
KOIT 2,5/6			M6	33				12	0,12
KOIT 6/5	4÷6	yellow	M4	34	3,4	6,8	25	9,5	0,17
KOIT 6/6			M5	37				12	
KOIT 6/8			M6	39				15	0,22

Insulated spade terminals in heat-shrink insulation, KWIT type

FEATURES & BENEFITS

- spade terminal Cu, with heat-shrink insulating sleeve with adhesive, marked with screw size and cable cross-section
- heat-shrink insulation; enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	high-density PE heat-shrink sleeve
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-55 ÷ +105
Shrink temperature [°C]	≥ 180

CERTIFICATES & STANDARDS

Design	copper part of terminals acc. to DIN 46234 sizes

NOTE!

Other designs on request.

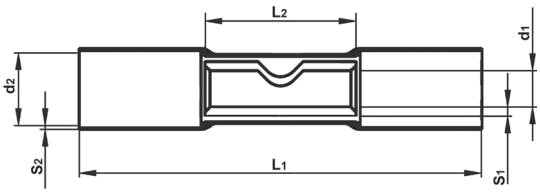
Type	Cross-section [mm²]	Insulation colour	Screw hole	L	d	D	e	W	Weight [kg]
KWIT 1/4	0,5÷1	red	M4	30	1,6	4,8	21	8,2	0,07
KWIT 1/5			M5						0,09
KWIT 2,5/4	1,5÷2,5	blue	M4	30	2,2	5,8	21	9	0,08
KWIT 2,5/5			M5						0,1
KWIT 6/4	4÷6	yellow	M4	34	3,4	6,8	25	9,2	0,15
KWIT 6/5			M5						0,17

“Butt splice” connectors in heat-shrink insulation, KLIT type

FEATURES & BENEFITS

- connector Cu, with heat-shrink insulating sleeve, to make “butt splice” cable connections
- heat-shrink insulation; enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

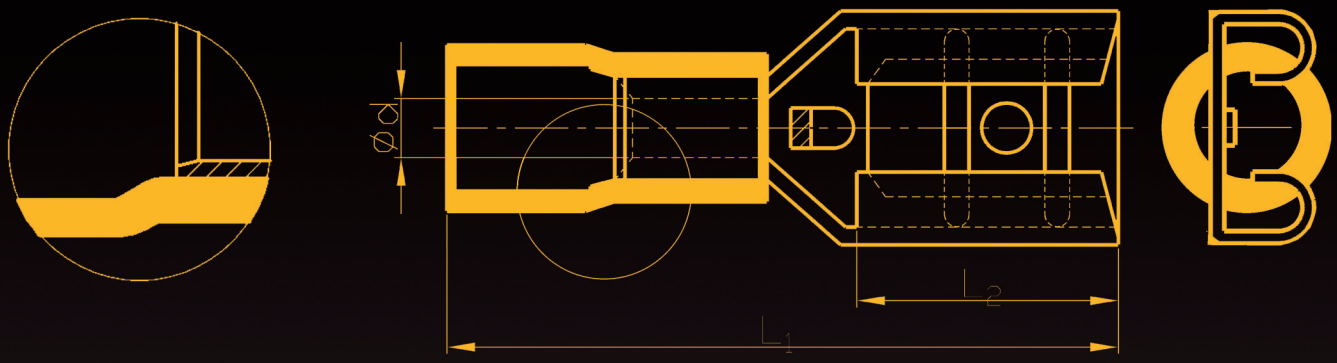
Insulation	high-density PE heat-shrink sleeve
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-55 ÷ +105
Shrink temperature [°C]	≥ 180

DIMENSIONS

s_2	0,6

Type	Cross-section [mm²]	Insulation colour	L_1	L_2	d_1	d_2	s_1	Weight [kg]
KLIT 0,5	0,2÷0,5	transparent	28	12	1,2	3,2	0,4	0,04
KLIT 1	0,75÷1,0	red	35	15	1,7	4,8	0,8	0,11
KLIT 2,5	1,5÷2,5	blue	35	15	2,4	5,8	0,8	0,14
KLIT 6	4÷6	yellow	41	15	3,6	6,8	1,0	0,23

ERGOM®





Connectors - insulated

For single crimping

Insulated push-on female connectors, NI…B PCV type	157
Fully insulated push-on female connectors, NCI ... B PCV	158
Insulated piggyback female push-on connectors, NWI...B PCV	159
Insulated male push-on connectors, WI...B PCV type	160

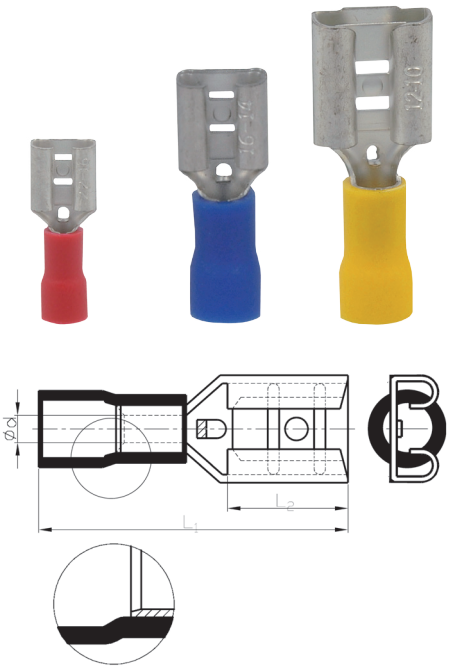
For double crimping (with copper sleeve)

Insulated push-on female connectors, NI	161
Insulated push-on female connectors, NI...PCV	162
Insulated female push-on connectors in heat-shrink insulation, NIT type	163
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Insulated push-on female connectors, NI...B PCV type

FEATURES & BENEFITS

- female push-on connector with polyamide sleeve - low-cost version for less demanding applications, without internal Cu sleeve
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification



LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

NOTE!

Terminals with PA and PC insulation available on request.

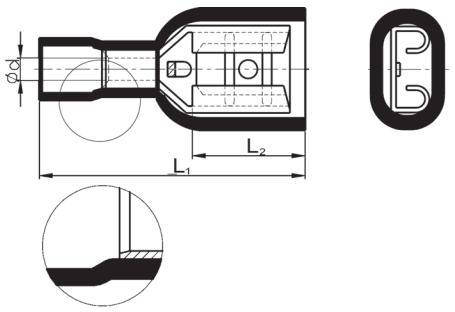
Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
NI 2,8-1/0,5 BPCV	0,75÷1	red	2,8x0,5	1,7	18,5	6,3	0,04
NI 2,8-1/0,8 BPCV			2,8x0,8				
NI 4,8-1/0,5 BPCV			4,8x0,5				0,05
NI 4,8-1/0,8 BPCV			4,8x0,8				
NI 6,3-1/0,8 BPCV			6,3x0,8		20,5	8,0	0,07
NI 2,8-2,5/0,5 BPCV	1,5÷2,5	blue	2,8x0,5	2,3	18,5	6,3	0,05
NI 2,8-2,5/0,8 BPCV			2,8x0,8				
NI 4,8-2,5/0,5 BPCV			4,8x0,5				0,06
NI 4,8-2,5/0,8 BPCV			4,8x0,8				
NI 6,3-2,5/0,8 BPCV			6,3x0,8		20,5	8,0	0,08
NI 6,3-6/0,8 BPCV	4÷6	yellow	6,3x0,8	3,4	23,5	8,0	0,1
NI 9,5-6/1,2 BPCV			9,5x1,2		29,0	12,0	0,18

Fully insulated push-on female connectors, NCI ... B PCV

FEATURES & BENEFITS

- female push-on connector with long PVC insulating sleeve - low-cost version for less demanding applications, without internal Cu sleeve
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
NCI 4,8-1/0,5 BPCV	0,75÷1	red	4,8x0,5	1,7	18,5	6,6	0,08
NCI 4,8-1/0,8 BPCV			4,8x0,8				
NCI 6,3-1/0,8 BPCV			6,3x0,8		22,0	8,0	0,1
NCI 4,8-2,5/0,5 BPCV	1,5÷2,5	blue	4,8x0,5	2,3	20,0	6,6	0,08
NCI 4,8-2,5/0,8 BPCV			4,8x0,8				
NCI 6,3-2,5/0,8 BPCV			6,3x0,8		22,5	8,0	0,12
NCI 6,3-6/0,8 BPCV	4÷6	yellow	6,3x0,8	3,4	24,2	8,0	0,15

Insulated piggyback female push-on connectors, NWI...B PCV

FEATURES & BENEFITS

- female push-on connector with male push-on connector with polyamide insulating sleeve - low-cost version for less demanding applications, without internal Cu sleeve
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification



LOGISTIC DATA

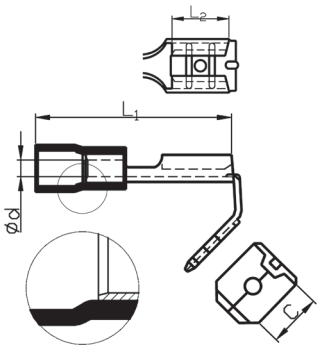
Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60
Size	6,3x0,8

DIMENSIONS

L_2	8,0
C	8,2





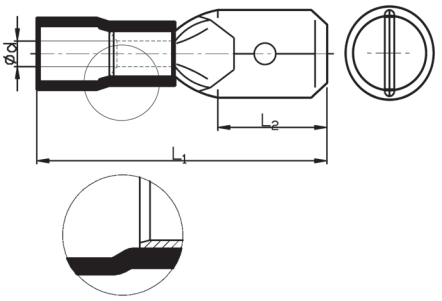
Type	Cross-section [mm²]	Insulation colour	d	L_1	Weight [kg]
NWI 6,3-1/0,8 BPCV	0,75÷1	red	1,7	22,5	0,1
NWI 6,3-2,5/0,8 BPCV	1,5÷2,5	blue	2,3	22,5	0,11
NWI 6,3-6/0,8 BPCV	4÷6	yellow	3,4	24,5	0,12

Insulated male push-on connectors, WI...B PCV type

FEATURES & BENEFITS

- male push-on connector with polyamide insulating sleeve - low-cost version for less demanding applications, without internal Cu sleeve
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

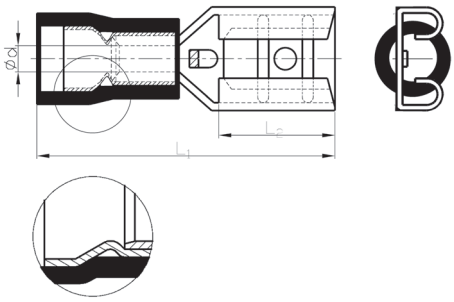
Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
WI 2,8-1/0,5 BPCV	0,75÷1	red	2,8x0,5	1,7	22,0	7,2	0,03
WI 2,8-1/0,8 BPCV			2,8x0,8				0,04
WI 4,8-1/0,5 BPCV			4,8x0,5				0,05
WI 4,8-1/0,8 BPCV			4,8x0,8				0,06
WI 6,3-1/0,8 BPCV			6,3x0,8			8,0	0,07
WI 4,8-2,5/0,5 BPCV	1,5÷2,5	blue	4,8x0,5	2,3	22,5	7,2	0,08
WI 4,8-2,5/0,8 BPCV			4,8x0,8				
WI 6,3-2,5/0,8 BPCV			6,3x0,8			8,0	
WI 6,3-6/0,8 BPCV	4÷6	yellow	6,3x0,8	3,4	23,0	8,0	0,14

Insulated push-on female connectors, NI

FEATURES & BENEFITS

- female push-on connector with polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification
- to operate in wider temperature ranges than terminals with PVC insulation





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyamide 6.6
Material	brass
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

NOTE!

Terminals with PC insulation available on request. Terminals on spools - visit www.ergom.com

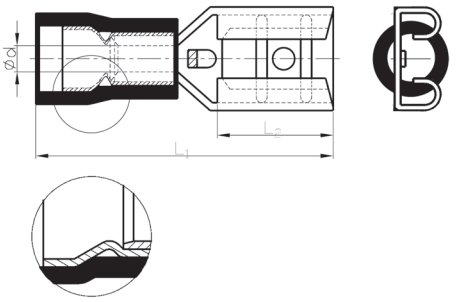
Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
NI 2,8-1/0,5	0,75÷1	red	2,8x0,5	1,7	18,5	6,3	0,07
NI 2,8-1/0,8			2,8x0,8				
NI 4,8-1/0,5			6,3x0,8		19,5	6,6	0,1
NI 4,8-1/0,8			2,8x0,5				0,07
NI 6,3-1/0,8			4,8x0,8		21,5	8,0	0,09
NI 2,8-2,5/0,5	1,5÷2,5	blue	4,8x0,5	2,3	19,0	6,3	0,07
NI 2,8-2,5/0,8			4,8x0,8				0,08
NI 4,8-2,5/0,5			2,8x0,8		20,0	6,6	
NI 4,8-2,5/0,8			4,8x0,5				
NI 6,3-2,5/0,8			6,3x0,8		21,5	8,0	0,11
NI 6,3-6/0,8	4÷6	yellow	6,3x0,8	3,4	25,0	8,0	0,18
NI 9,5-6/1,2			9,5x1,2		30,1	12,0	0,26

Insulated push-on female connectors, NI...PCV

FEATURES & BENEFITS

- female push-on connector with polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

NOTE!

Terminals with PC insulation available on request.

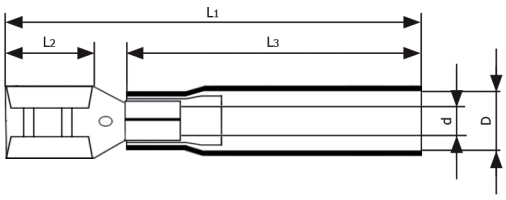
Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
NI 2,8-1/0,5 PCV	0,75÷1	red	2,8x0,5	1,7	19,0	6,3	0,07
NI 2,8-1/0,8 PCV			2,8x0,8				
NI 4,8-1/0,5 PCV			4,8x0,5		19,5		
NI 4,8-1/0,8 PCV			4,8x0,8				0,08
NI 6,3-1/0,8 PCV			6,3x0,8		21,0	6,6	0,1
NI 2,8-2,5/0,5 PCV	1,5÷2,5	blue	2,8x0,5	2,3	19,5	6,6	0,07
NI 2,8-2,5/0,8 PCV			2,8x0,8		20,0		0,08
NI 4,8-2,5/0,5 PCV			4,8x0,5				
NI 4,8-2,5/0,8 PCV			4,8x0,8				0,09
NI 6,3-2,5/0,8 PCV			6,3x0,8		24,0	8,0	0,11
NI 6,3-6/0,8 PCV	4÷6	yellow	6,3x0,8	3,4	24,0	8,0	0,18
NI 9,5-6/1,2 PCV			9,5x1,2		30,1	12,0	0,26

Insulated female push-on connectors in heat-shrink insulation, NIT type

FEATURES & BENEFITS

- female push-on connector with heat-shrink insulating sleeve with adhesive, with long Cu sleeve inside, for double crimping
- heat-shrink insulation; enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	high-density PE heat-shrink sleeve
Material	brass
Covering	tin-plated
Operating temperature [°C]	-55 ÷ +105
Shrink temperature [°C]	≥ 180
Size	6,3x0,8

DIMENSIONS

L_2	7,9

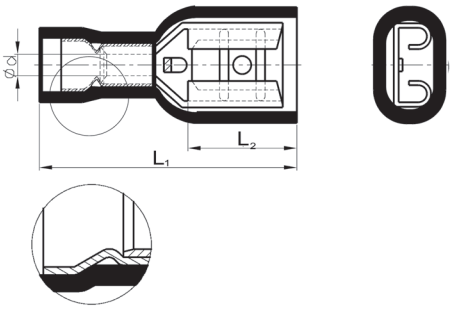
Type	Cross-section [mm²]	Insulation colour	d	D	L_1	L_3	Weight [kg]
NIT 6,3-1/0,8	1	red	1,6	4,8	30	21	0,08
NIT 6,3-2,5/0,8	2,5	blue	2,2	5,8	30	21	0,09
NIT 6,3-6/0,8	6	yellow	3,4	6,8	32	25	0,11

Fully insulated push-on female connectors, NCI...PCV

FEATURES & BENEFITS

- female push-on connector with long PVC insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

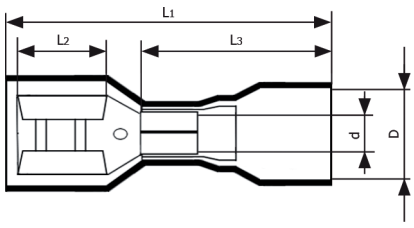
Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
NCI 2,8-1/0,5 PCV	0,75÷1	red	2,8x0,5	1,7	20,5	6,6	0,09
NCI 2,8-1/0,8 PCV			2,8x0,8				
NCI 4,8-1/0,5 PCV			4,8x0,5				0,1
NCI 4,8-1/0,8 PCV			4,8x0,8				
NCI 6,3-1/0,8 PCV			6,3x0,8		22,0	8,0	0,13
NCI 2,8-2,5/0,5 PCV	1,5÷2,5	blue	2,8x0,5	2,3	20,5	6,3	0,09
NCI 2,8-2,5/0,8 PCV			2,8x0,8				
NCI 4,8-2,5/0,5 PCV			4,8x0,5		21,0	6,6	0,1
NCI 4,8-2,5/0,8 PCV			4,8x0,8				
NCI 6,3-2,5/0,8 PCV			6,3x0,8		22,0	8,0	0,14
NCI 6,3-6/0,8 PCV	4÷6	yellow	6,3x0,8	3,4	25,0	8,0	0,19
NCI 9,5-6/1,2 PCV			9,5x1,2		29,5		0,3

Fully insulated female push-on connectors in heat-shrink insulation, NCIT type

FEATURES & BENEFITS

- female push-on connector with long heat-shrink insulating sleeve with adhesive, with long Cu sleeve inside, for double crimping
- heat-shrink insulation; enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	heat-shrink sleeve
Material	brass
Covering	tin-plated
Operating temperature [°C]	-55 ÷ +105
Shrink temperature [°C]	≥ 180
Size	6,3x0,8

DIMENSIONS

L_2	7,9

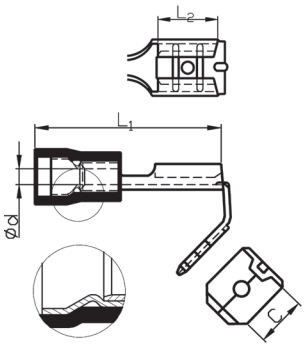
Type	Cross-section [mm²]	Insulation colour	d	D	L_1	L_3	Weight [kg]
NCIT 6,3-1/0,8	1	red	1,6	6,2	30	21	0,07
NCIT 6,3-2,5/0,8	2,5	blue	2,2	6,2	30	21	0,08
NCIT 6,3-6/0,8	6	yellow	3,4	6,8	32	25	0,1

Insulated piggyback female push-on connectors, NWI...PCV

FEATURES & BENEFITS

- female push-on connector with male push-on connector with polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60
Size	6,3x0,8

DIMENSIONS

L_2	8,0
C	8,2

NOTE!

Terminals with PA and PC insulation available on request.

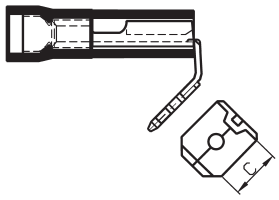
Type	Cross-section [mm²]	Insulation colour	d	L_1	Weight [kg]
NWI 6,3-1/0,8 PCV	0,75÷1	red	1,7	22,5	0,11
NWI 6,3-2,5/0,8 PCV	1,5÷2,5	blue	2,3	22,5	0,12
NWI 6,3-6/0,8 PCV	4÷6	yellow	3,4	24,0	0,14

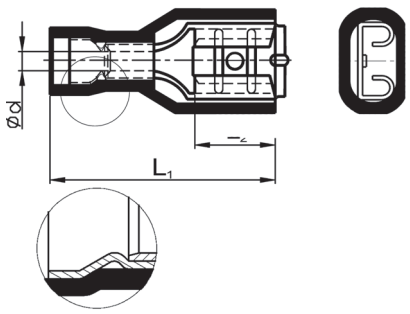
Fully insulated piggyback female push-on connectors, NWCI

FEATURES & BENEFITS

- female push-on connector with male push-on connector with long polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification
- to operate in wider temperature ranges than terminals with PVC insulation







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyamide 6.6
Material	brass
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95
Size	6,3x0,8

DIMENSIONS

L_1	21,5
L_2	8,0
C	8,2

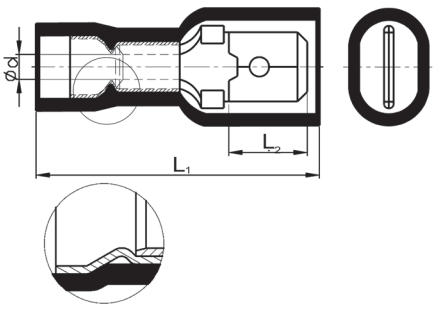
Type	Cross-section [mm²]	Insulation colour	d	Weight [kg]
NWCI 6,3-1/0,8	0,75÷1	red	1,7	0,14
NWCI 6,3-2,5/0,8	1,5÷2,5	blue	2,3	0,18

Fully insulated male push-on connectors, WCI type

FEATURES & BENEFITS

- male push-on connector with long polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification
- to operate in wider temperature ranges than terminals with PVC insulation





LOGISTIC DATA

Quantity in package [pcs]	100
Weight [kg]	0,12

MECHANICAL DATA

Insulation	polyamide 6.6
Material	brass
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95
Size	6,3x0,8

DIMENSIONS

L_1	24,0
L_2	7,7

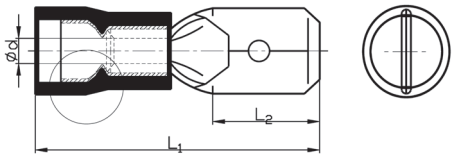
Type	Cross-section [mm²]	Insulation colour	d
WCI 6,3-1/0,8	0,75÷1	red	1,7
WCI 6,3-2,5/0,8	1,5÷2,5	blue	2,3

Insulated male push-on connectors, WI type

FEATURES & BENEFITS

- male push-on connector with polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification
- to operate in wider temperature ranges than terminals with PVC insulation







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyamide 6.6
Material	brass
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

NOTE!

Spooled terminals - for details, visit www.ergom.com.

Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
WI 2,8-1/0,5	0,75÷1	red	2,8x0,5	1,7	19,4	6,5	0,04
WI 2,8-1/0,8			2,8x0,8				0,05
WI 4,8-1/0,5			4,8x0,5		19,9	6,7	0,06
WI 4,8-1/0,8			4,8x0,8				0,07
WI 6,3-1/0,8			6,3x0,8		22,0	7,2	0,09
WI 4,8-2,5/0,5	1,5÷2,5	blue	4,8x0,5	2,3	19,9	6,7	0,08
WI 4,8-2,5/0,8			4,8x0,8				0,09
WI 6,3-2,5/0,8			6,3x0,8		22,0	7,7	0,1
WI 6,3-6/0,8	4÷6	yellow	6,3x0,8	3,4	24,0	7,7	0,16

Insulated male push-on connectors, WI...PCV type

FEATURES & BENEFITS

- male push-on connector with polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification

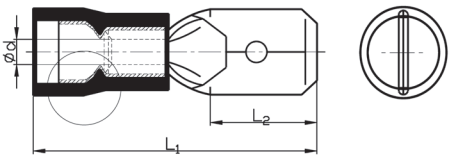


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60





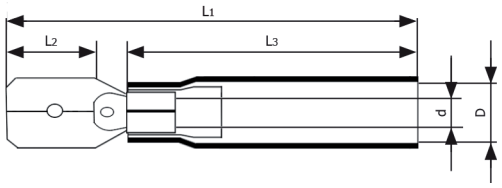
Type	Cross-section [mm²]	Insulation colour	Size	d	L_1	L_2	Weight [kg]
WI 2,8-1/0,5 PCV	0,75÷1	red	2,8x0,5	1,7	22,0	7,2	0,04
WI 2,8-1/0,8 PCV			2,8x0,8				0,05
WI 4,8-1/0,5 PCV			4,8x0,5				0,06
WI 4,8-1/0,8 PCV			4,8x0,8				0,07
WI 6,3-1/0,8 PCV			6,3x0,8				0,08
WI 4,8-2,5/0,5 PCV	1,5÷2,5	blue	4,8x0,5	2,3	22,5	7,2	0,09
WI 4,8-2,5/0,8 PCV			4,8x0,8				
WI 6,3-2,5/0,8 PCV			6,3x0,8			8,0	0,1
WI 6,3-6/0,8 PCV	4÷6	yellow	6,3x0,8	3,4	24,0	8,0	0,16

Insulated male push-on connectors in hear-shrink insulation, WIT type

FEATURES & BENEFITS

- male push-on connector with heat-shrink insulating sleeve with adhesive, with long Cu tube inside, for double crimping
- heat-shrink insulation; enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification





LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	high-density PE heat-shrink sleeve
Material	brass
Covering	tin-plated
Operating temperature [°C]	-55 ÷ +105
Shrink temperature [°C]	≥ 180
Size	6,3x0,8

DIMENSIONS

L_2	8,0

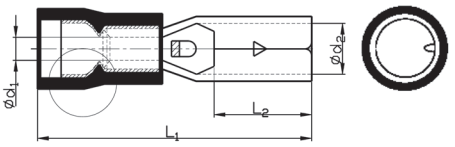
Type	Cross-section [mm²]	Insulation colour	d	D	L_1	L_3	Weight [kg]
WIT 6,3-1/0,8	1	red	1,6	4,8	31,0	21,0	0,08
WIT 6,3-2,5/0,8	2,5	blue	2,2	5,8	31,0	21,0	0,09
WIT 6,3-6/0,8	6	yellow	3,4	6,8	35,0	25,0	0,11

Insulated receptacles, GI

FEATURES & BENEFITS

- socket with polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification
- to operate in wider temperature ranges than terminals with PVC insulation







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyamide 6.6
Material	brass
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

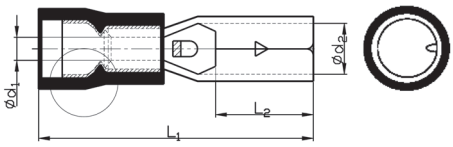
Type	Cross-section [mm²]	Insulation colour	L_1	L_2	d_1	d_2	Weight [kg]
GI 1/4	0,75÷1	red	22,5	7,3	1,8	3,9	0,1
GI 2,5/4	1,5÷2,5	blue	22,5	7,3	2,4	3,9	0,14
GI 2,5/5				7,0		4,9	0,15
GI 6/5	4÷6	yellow	24,5	7,0	3,5	4,9	0,18

Insulated receptacles, GI...PCV

FEATURES & BENEFITS

- socket with PVC insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

DIMENSIONS

L_2	7,0

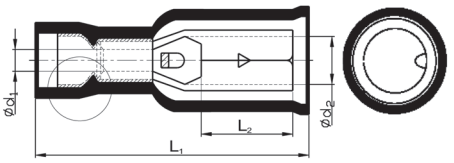
Type	Cross-section [mm²]	Insulation colour	L_1	d_1	d_2	Weight [kg]
GI 1/4 PCV	0,75÷1	red	22,5	1,8	3,9	0,1
GI 2,5/4 PCV	1,5÷2,5	blue	22,5	2,4	3,9	0,14
GI 2,5/5 PCV					4,9	0,15
GI 6/5 PCV	4÷6	yellow	24,5	3,5	4,9	0,18

Fully insulated receptacles, GCI...PCV

FEATURES & BENEFITS

- socket with long PVC insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV)
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

DIMENSIONS

L_1	25,0

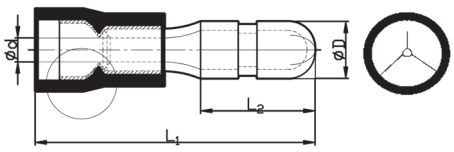
Type	Cross-section [mm²]	Insulation colour	L_2	d_1	d_2	Weight [kg]
GCI 1/4 PCV	0,75÷1	red	7,3	1,7	3,9	0,11
GCI 2,5/4 PCV	1,5÷2,5	blue	7,3	2,3	3,9	0,13
GCI 2,5/5 PCV			8,5		4,9	0,14
GCI 6/5 PCV	4÷6	yellow	8,5	3,4	4,9	0,21

Insulated bullet connectors, WI...PCV type

FEATURES & BENEFITS

- pin with polyamide insulating sleeve, with long Cu tube inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk
- sleeve colours facilitate cross-section identification







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyvinyl chloride (PCV).
Material	brass
Covering	tin-plated
Operating temperature [°C]	-5 ÷ +60

NOTE!

Terminals with PA and PC insulation available on request.

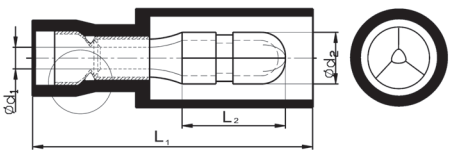
Type	Cross-section [mm²]	Insulation colour	d	D	L_1	L_2	Weight [kg]
WI 1/4 PCV	0,75÷1	red	1,7	4,0	22,5	9,2	0,08
WI 2,5/4 PCV	1,5÷2,5	blue	2,3	4,0	22,5	9,2	0,09
WI 2,5/5 PCV				5,0		9,3	0,1
WI 6/5 PCV	4÷6	yellow	3,4	5,0	26,0	9,3	0,14

Fully insulated bullet connectors, WCI ... type

FEATURES & BENEFITS

- pin with long polyamide insulating sleeve, with long Cu sleeve inside, for double crimping
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification
- to operate in wider temperature ranges than terminals with PVC insulation







LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Insulation	polyamide 6.6
Material	brass
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95

DIMENSIONS

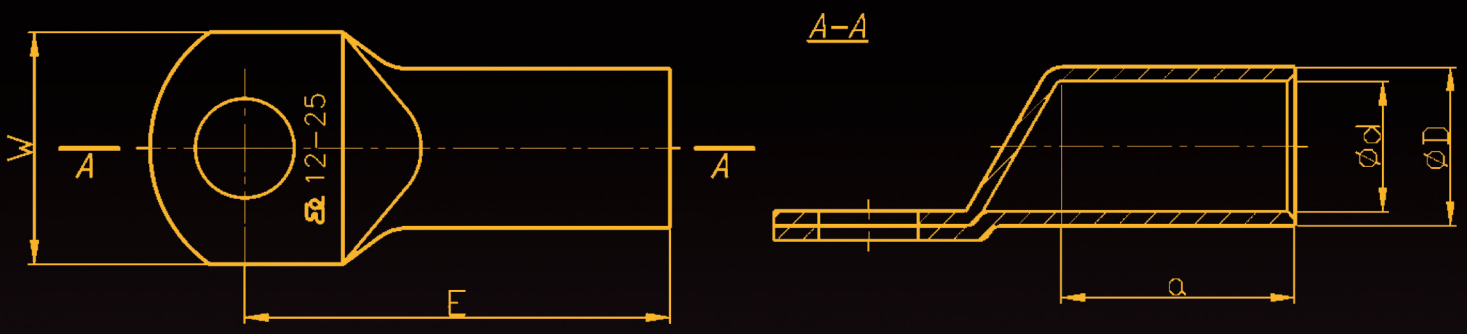
L_1	25,0
L_2	9,2
d_2	4,0

NOTE!

Terminals with PA and PC insulation available on request.

Type	Cross-section [mm²]	Insulation colour	d_1	Weight [kg]
WCI 1/4	0,75÷1	red	1,8	0,07
WCI 2,5/4	1,5÷2,5	blue	2,4	0,09

ERGOM®





Cu standard tubular terminals

Cu standard tubular terminals - ring terminals

Tubular ring terminals, KM type	179
Tubular ring terminals, KOR type	181
Tubular ring terminals with inspection hole, KORo type	184
Tubular ring terminals, KORI type	187
Insulated tubular ring terminals with inspection hole, KORol type	189
“Narrowed” tubular ring terminals, KORW type	191
Tubular terminals for 2 bolts KOR ... 2X type	192
Tubular terminals for 2 bolts KM ... 2X type	193

Cu standard tubular terminals - spade terminals

Tubular spade terminals, KWR type	194
Tubular spade terminals with inspection hole, KWRo type	195

Cu standard tubular terminals - angle terminals

Tubular angle terminals, K90R type	196
Tubular angle terminals, K45R type	198
Tubular angle terminals with inspection hole, K90Ro type	200
Tubular angle terminals with inspection hole, K45Ro type	202

Cu standard tubular terminals - joints

“Butt splice” compression connectors, KL type	204
“Butt splice” connectors, ZM type	205
Parallel compression connectors, KLS type	206
Connectors, KT type	207
Connectors KX type	208

Cu standard tubular terminals - no hole

Tubular terminals, KOR type, without hole	209
Tubular terminals, KM type, without hole	210

Tubular ring terminals, KM type

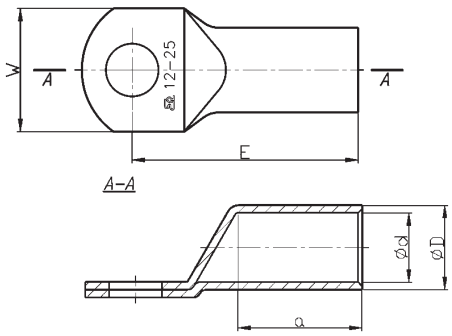
FEATURES & BENEFITS

- ring terminal Cu, standard, without galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- popular version for demanding applications, if tin plating not required
- very wide range



MECHANICAL DATA

Material	Cu
Covering	uncoated



CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KM 0,75/3	0,75	1,3	2,8	5,8	12,0	6,0	M3	-	-	1	100	0,06
KM 0,75/4					13,0	6,5	M4					
KM 0,75/5					14,0	7,5	M5					
KM 1,5/3	1,5	1,8	3,3	5,8	12,0	6,5	M3	-	-	1	100	0,08
KM 1,5/4					13,0		M4					0,1
KM 1,5/5					14,0	7,5	M5					0,09
KM 1,5/6					16,0	9,0	M6					0,1
KM 2,5/3	2,5	2,3	4,2	5,8	12,0	7,5	M3	-	-	1	100	0,13
KM 2,5/4					13,0		M4					
KM 2,5/5					14,0	8,5	M5					0,14
KM 2,5/6					16,0	9,5	M6					0,16
KM 2,5/8					20,0	13,0	M8					0,19
KM 4/4	4	3,0	5,0	7,8	18,0	8,5	M4	-	-	1	100	0,22
KM 4/5						9,0	M5					
KM 4/6					19,0	10,0	M6					0,26
KM 4/8					22,0	13,0	M8					0,28
KM 6/4	6	4,0	6,0	8,7	18,0	9,5	M4	4	1	1	100	0,3
KM 6/5					19,0		M5					0,31
KM 6/6						10,0	M6					0,35
KM 6/8					22,0	14,0	M8					0,37
KM 6/10					25,0	16,0	M10					0,4
KM 6/12						19,0	M12					
KM 10/5	10	4,5	7,0	10	21,0	12,0	M5	7	1	1	100 / 10	0,53 / 0,06
KM 10/6					21,5		M6					0,52 / 0,06
KM 10/8					23,5	15,0	M8					0,6 / 0,06
KM 10/10					25,5	17,0	M10					0,65 / 0,07
KM 10/12					26,5	19,0	M12					0,64 / 0,07
KM 16/5	16	5,5	8,5	13	25,0	12,0	M5	8	1	2	100 / 10	0,91 / 0,1
KM 16/6					25,5		M6					0,9 / 0,1
KM 16/8					27,5	15,0	M8					0,97 / 0,1
KM 16/10					29,5	17,0	M10					1 / 0,1
KM 16/12					30,5	19,0	M12					1,1 / 0,12

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KM 25/6	25	7,0	10,0	15	28,5	14,0	M6	10	1	2	100 / 10	1,22 / 0,13
KM 25/8					30,5	16,0	M8					1,25 / 0,13
KM 25/10					32,5	18,0	M10					1,3 / 0,14
KM 25/12					33,5	19,0	M12					
KM 25/14					35,5	21,0	M14					1,45 / 0,15
KM 35/6	35	8,5	12,0	17	31,5	18,0	M6	12	1	2	100 / 10	1,8 / 0,2
KM 35/8					33,5		M8					1,94 / 0,2
KM 35/10					35,5		M10					2,1 / 0,22
KM 35/12					36,5	20,0	M12					2,05 / 0,22
KM 35/14					38,5	21,0	M14					2,2 / 0,22
KM 35/16					39,5	26,0	M16					2,3 / 0,23
KM 50/6	50	10,0	14,0	19	34,5	20,0	M6	14	1	2	100 / 10	2,58 / 0,26
KM 50/8					36,5		M8					2,8 / 0,28
KM 50/10					38,5		M10					3,05 / 0,3
KM 50/12					39,5	23,0	M12					2,95 / 0,3
KM 50/14					41,5		M14					3,2 / 0,4
KM 50/16					42,5	28,0	M16					3,3 / 0,4
KM 50/20					47,0	30,0	M20					3,6 / 0,4
KM 70/6	70	12,0	16,5	21	40,5	23,0	M6	16	1	2	100 / 10	4,25 / 0,5
KM 70/8							M8					4,2 / 0,5
KM 70/10					43,5		M10					4,6 / 0,5
KM 70/12							M12					4,4 / 0,5
KM 70/14					46,5	28,0	M14					4,9 / 0,5
KM 70/16							M16					4,7 / 0,5
KM 70/20					51,0	31,0	M20					5 / 0,5
KM 95/8	95	13,5	18,0	24	47,0	26,0	M8	17	1	2	50 / 10	2,8 / 0,6
KM 95/10							M10					2,72 / 0,6
KM 95/12							M12					2,65 / 0,6
KM 95/14					50,0		M14					2,85 / 0,6
KM 95/16						29,0	M16					
KM 95/20					54,5	35,0	M20					3,1 / 0,7
KM 120/8	120	15,0	19,5	26	50,0	29,0	M10	19	1	2	50 / 10	3,3 / 0,7
KM 120/10												3,15 / 0,7
KM 120/12							M12					3,17 / 0,7
KM 120/14					53,0		M14					3,4 / 0,7
KM 120/16							M16					
KM 120/20					57,5	35,0	M20					3,5 / 0,7
KM 150/8	150	16,5	21,0	29	54,0	31,0	M8	20	2	4	50 / 10	3,78 / 0,8
KM 150/10							M10					3,73 / 0,8
KM 150/12							M12					3,55 / 0,8
KM 150/14					57,0		M14					3,9 / 0,8
KM 150/16							M16					3,8 / 0,8
KM 150/20					61,5	35,0	M20					4,2 / 0,9
KM 185/10	185	19,0	24,0	30	56,5	35,0	M10	23	2	4	50 / 10	4,92 / 1
KM 185/12							M12					4,82 / 1
KM 185/14					59,5		M14					5,35 / 1,1
KM 185/16							M16					5,11 / 1,1
KM 240/10	240	21,0	26,0	38	73,5	38,0	M10	25	2	4	50 / 10	7,3 / 1,5
KM 240/12							M12					
KM 240/14							M14					7,2 / 1,5
KM 240/16							M16					7,1 / 1,5
KM 240/20							M 20					7 / 1,4
KM 300/10	300	24,0	30,0	45	82,5	43,0	M10	28	2	-	25 / 10	5,7 / 2,3
KM 300/12							M12					5,5 / 2,3
KM 300/16							M16					
KM 300/20							M 20					5,2 / 1,05
KM 400/12	400	27,5	33,5	50	90,0	49,0	M12	32	2	-	25 / 1	6,7 / 0,27
KM 400/14							M 14				1	0,28
KM 400/16							M 16					0,26
KM 500/12	500	31,0	38,0	70	112,5	55,0	M 12	36	3	-	1	0,44
KM 500/20							M 20					0,43
KM 625/12	625	34,0	40,0	70	114,0	60	M 12	38	3	-	25	10,6
KM 625/20							M 20					10,33

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular ring terminals, KOR type

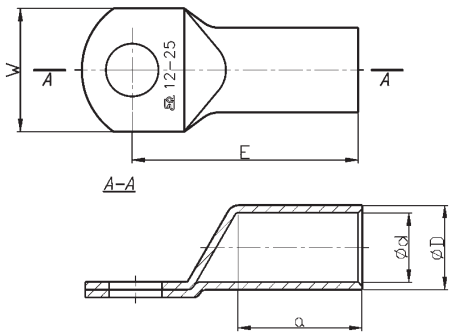
FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- popular version for demanding applications
- very wide range



MECHANICAL DATA

Material	Cu
Covering	tin-plated



CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KOR 0,75/3	0,75	1,3	2,8	5,8	12,0	6,0	M3	√	-	-	1	100	0,06
KOR 0,75/4					13,0	6,5	M4						
KOR 0,75/5					14,0	7,5	M5						
KOR 1,5/3	1,5	1,8	3,3	5,8	12,0	6,5	M3	√	-	-	1	100	0,08
KOR 1,5/4					13,0		M4						0,1
KOR 1,5/5					14,0	7,5	M5						0,09
KOR 1,5/6					16,0	9,0	M6						0,1
KOR 2,5/3	2,5	2,3	4,2	5,8	12,0	7,5	M3	√	-	-	1	100	0,13
KOR 2,5/4					13,0		M4						
KOR 2,5/5					14,0	8,5	M5						0,14
KOR 2,5/6					16,0	9,5	M6						0,16
KOR 2,5/8					20,0	13,0	M8						0,19
KOR 4/4	4	3,0	5,0	7,8	18,0	8,5	M4	√	-	-	1	100	0,22
KOR 4/5						9,0	M5						
KOR 4/6					19,0	10,0	M6						0,26
KOR 4/8					22,0	13,0	M8						0,28
KOR 6/4	6	4,0	6,0	8,7	18,0	9,5	M4	√	4	1	1	100	0,3
KOR 6/5					19,0		M5						0,31
KOR 6/6						10,0	M6						0,35
KOR 6/8					22,0	14,0	M8						0,37
KOR 6/10					25,0	16,0	M10						0,4
KOR 6/12						19,0	M12						
KOR 10/5	10	4,5	7,0	10	21,0	12,0	M5	√	7	1	1	100 / 10	0,53 / 0,06
KOR 10/6					21,5		M6						0,52 / 0,06
KOR 10/8					23,5	15,0	M8						0,6 / 0,06
KOR 10/10					25,5	17,0	M10						0,65 / 0,07
KOR 10/12					26,5	19,0	M12						0,64 / 0,07

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KOR 16/5					25,0	12,0	M5						0,91 / 0,1
KOR 16/6					25,5		M6						0,9 / 0,1
KOR 16/8	16	5,5	8,5	13	27,5	15,0	M8	√	8	1	2	100 / 10	0,97 / 0,1
KOR 16/10					29,5	17,0	M10						1 / 0,1
KOR 16/12					30,5	19,0	M12						1,1 / 0,2
KOR 25/5					28,0	14,0	M5						1,18 / 0,2
KOR 25/6					28,5		M6						1,22 / 0,2
KOR 25/8	25	7,0	10,0	15	30,5	16,0	M8	√	10	1	2	100 / 10	1,25 / 0,2
KOR 25/10					32,5	18,0	M10						1,3 / 0,2
KOR 25/12					33,5	19,0	M12						
KOR 25/14					35,5	21,0	M14						1,45 / 0,2
KOR 35/5					31,5	18,0	M5						1,6 / 0,2
KOR 35/6							M6						1,8 / 0,2
KOR 35/8					33,5		M8						1,94 / 0,2
KOR 35/10	35	8,5	12,0	17	35,5		M10	√	12	1	2	100 / 10	2,1 / 0,3
KOR 35/12					36,5	20,0	M12						2,05 / 0,3
KOR 35/14					38,5	21,0	M14						2,2 / 0,3
KOR 35/16					39,5	26,0	M16						2,3 / 0,3
KOR 50/6					34,5	20,0	M6						2,58 / 0,3
KOR 50/8					36,5		M8						2,8 / 0,3
KOR 50/10					38,5		M10						3,05 / 0,3
KOR 50/12	50	10,0	14,0	19	39,5	23,0	M12	√	14	1	2	100 / 10	2,95 / 0,3
KOR 50/14					41,5		M14						3,2 / 0,4
KOR 50/16					42,5	28,0	M16						3,3 / 0,4
KOR 50/20					47,0	30,0	M20						3,6 / 0,4
KOR 70/6					40,5	23,0	M6						4,25 / 0,5
KOR 70/8							M8						4,2 / 0,5
KOR 70/10					43,5		M10						4,6 / 0,5
KOR 70/12	70	12,0	16,5	21			M12	√	16	1	2	100 / 10	4,4 / 0,5
KOR 70/14					46,5	28,0	M14						4,9 / 0,5
KOR 70/16							M16						4,7 / 0,5
KOR 70/20					51,0	31,0	M20						5 / 0,5
KOR 95/8					47,0	26,0	M8						2,8 / 0,6
KOR 95/10							M10						2,72 / 0,6
KOR 95/12							M12						2,65 / 0,6
KOR 95/14	95	13,5	18,0	24	50,0		M14	√	17	1	2	50 / 10	2,85 / 0,6
KOR 95/16						29,0	M16						
KOR 95/20					54,5	35,0	M20						3,1 / 0,7
KOR 120/8					50,0	29,0	M8						3,3 / 0,7
KOR 120/10							M10						3,15 / 0,7
KOR 120/12							M12						3,17 / 0,7
KOR 120/14	120	15,0	19,5	26	53,0		M14	√	19	1	2	50 / 10	3,4 / 0,7
KOR 120/16							M16						
KOR 120/20					57,5	35,0	M20						3,5 / 0,8
KOR 150/8					54,0	31,0	M8						3,78 / 0,8
KOR 150/10							M10						3,73 / 0,8
KOR 150/12							M12						3,55 / 0,8
KOR 150/14	150	16,5	21,0	29	57,0		M14	√	20	2	4	50 / 10	3,9 / 0,8
KOR 150/16							M16						3,8 / 0,8
KOR 150/20					61,5	35,0	M20						4,2 / 0,9
KOR 185/10					56,5	35,0	M10						4,92 / 1
KOR 185/12							M12						4,82 / 1
KOR 185/14	185	19,0	24,0	30	59,5		M14	√	23	2	4	50 / 10	5,35 / 1,1
KOR 185/16							M16						5,11 / 1,1
KOR 185/20					64,0	38,0	M20						5,5 / 1,2
KOR 240/10							M10						7,3 / 1,5
KOR 240/12							M12						
KOR 240/14	240	21,0	26,0	38	73,5	38,0	M14	√	25	2	4	50 / 10	7,2 / 1,5
KOR 240/16							M16						7,1 / 1,5
KOR 240/20							M20						7 / 1,5

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KOR 300/10	300	24,0	30,0	45	82,5	43,0	M10	–	28	2	-	25 / 10	5,7 / 2,3
KOR 300/12							M12						5,5 / 2,3
KOR 300/14							M14						5,55 / 2,3
KOR 300/16							M16						5,5 / 2,3
KOR 300/20							M20						5,2 / 2,1
KOR 400/12	400	27,5	33,5	50	90,0	49,0	M12	–	32	2	-	25 / 1	6,7 / 0,3
KOR 400/16							M16						6,6 / 0,3
KOR 400/20							M20						
KOR 500/12	500	31,0	38,0	70	112,5	55,0	M12	–	36	3	-	25 / 1	10,97 / 0,5
KOR 500/14							M14						10,84 / 0,5
KOR 500/16							M16						10,85 / 0,5
KOR 500/20							M20						
KOR 625/12	625	34,0	40,0	70	114,0	60	M12	–	38	3	-	25 / 1	10,6 / 0,5
KOR 625/16							M16						
KOR 625/20							M20						10,33 / 0,5

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular ring terminals with inspection hole, KORo type

FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating and inspection hole
- description of cable cross-section and terminal size on fin surface
- very wide range



MECHANICAL DATA

Material	Cu
Covering	tin-plated

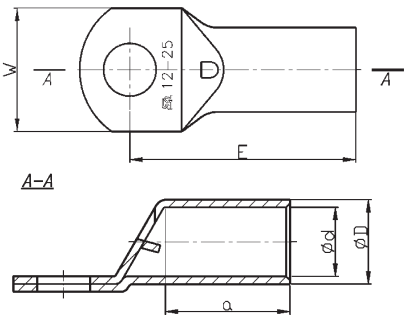
CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com



c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KORo 0,75/3	0,75	1,3	2,8	5,8	12,0	6,0	M3	√	-	-	1	100	0,06
KORo 0,75/4					13,0	6,5	M4						
KORo 0,75/5					14,0	7,5	M5						
KORo 1,5/3	1,5	1,8	3,3	5,8	12,0	6,5	M3	√	-	-	1	100	0,08
KORo 1,5/4					13,0		M4						0,1
KORo 1,5/5					14,0	7,5	M5						0,09
KORo 1,5/6					16,0	9,0	M6						0,1
KORo 2,5/3	2,5	2,3	4,2	5,8	12,0	7,5	M3	√	-	-	1	100	0,13
KORo 2,5/4					13,0		M4						
KORo 2,5/5					14,0	8,5	M5						0,14
KORo 2,5/6					16,0	9,5	M6						0,16
KORo 2,5/8					20,0	13,0	M8						0,19
KORo 4/4	4	3,0	5,0	7,8	18,0	8,5	M4	√	-	-	1	100	0,22
KORo 4/5						9,0	M5						
KORo 4/6					19,0	10,0	M6						0,26
KORo 4/8					22,0	13,0	M8						0,28
KORo 6/4	6	4,0	6,0	8,7	18,0	9,5	M4	√	4	1	1	100	0,3
KORo 6/5					19,0		M5						0,31
KORo 6/6						10,0	M6						0,35
KORo 6/8					22,0	14,0	M8						0,37
KORo 6/10					25,0	16,0	M10						0,4
KORo 6/12						19,0	M12						
KORo 10/5	10	4,5	7,0	10	21,0	12	M5	√	7	1	1	100 / 10	0,53 / 0,06
KORo 10/6					21,5		M6						0,52 / 0,06
KORo 10/8					23,5	15	M8						0,6 / 0,06
KORo 10/10					25,5	17	M10						0,65 / 0,07
KORo 10/12					26,5	19	M12						0,64 / 0,07

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KORo 16/5	16	5,5	8,5	13	25,0	12	M5	√	8	1	2	100 / 10	0,91 / 0,1
KORo 16/6					25,5		M6						0,9 / 0,1
KORo 16/8					27,5	15	M8						0,97 / 0,1
KORo 16/10					29,5	17	M10						1 / 0,1
KORo 16/12					30,5	19	M12						1,1 / 0,12
KORo 25/5	25	7,0	10,0	15	28,0	14	M5	√	10	1	2	100 / 10	1,18 / 0,12
KORo 25/6					28,5		M6						1,22 / 0,13
KORo 25/8					30,5	16	M8						1,25 / 0,13
KORo 25/10					32,5	18	M10						1,3 / 0,14
KORo 25/12					33,5	19	M12						
KORo 25/14					35,5	21	M14						1,45 / 0,15
KORo 35/6	35	8,5	12,0	17	31,5	18	M6	√	12	1	2	100 / 10	1,82 / 0,2
KORo 35/8					33,5		M8						1,94 / 0,2
KORo 35/10					35,5		M10						2,1 / 0,22
KORo 35/12					36,5	20	M12						2,05 / 0,22
KORo 35/14					38,5	21	M14						2,2 / 0,23
KORo 35/16					39,5	26	M16						2,3 / 0,24
KORo 50/6	50	10,0	14,0	19	34,5	20	M6	√	14	1	2	100 / 10	2,58 / 0,26
KORo 50/8					36,5		M8						2,8 / 0,29
KORo 50/10					38,5		M10						3,05 / 0,31
KORo 50/12					39,5	23	M12						2,95 / 0,31
KORo 50/14					41,5		M14						3,2 / 0,33
KORo 50/16					42,5	28	M16						3,3 / 0,34
KORo 50/20					47,0	30	M20						3,6 / 0,37
KORo 70/6	70	12,0	16,5	21	40,5	23	M6	√	16	1	2	100 / 10	4,25 / 0,43
KORo 70/8							M8						4,2 / 0,43
KORo 70/10					43,5		M10						4,6 / 0,5
KORo 70/12							M12						4,4 / 0,5
KORo 70/14					46,5	28	M14						4,9 / 0,5
KORo 70/16							M16						4,7 / 0,5
KORo 70/20					51,0	31	M20						5 / 0,5
KORo 95/8	95	13,5	18,0	24	47,0	26	M8	√	17	1	2	50 / 10	2,8 / 0,6
KORo 95/10							M10						2,72 / 0,6
KORo 95/12							M12						2,65 / 0,6
KORo 95/14					50,0		M14						2,85 / 0,6
KORo 95/16						29	M16						
KORo 95/20					54,5	35	M20						3,1 / 0,7
KORo 120/8	120	15,0	19,5	26	50,0	29	M10	√	19	1	2	50 / 10	3,3 / 0,7
KORo 120/10													3,15 / 0,7
KORo 120/12							M12						3,17 / 0,7
KORo 120/14					53,0		M14						3,4 / 0,7
KORo 120/16							M16						
KORo 120/20					57,5	35	M20						3,5 / 0,8
KORo 150/8	150	16,5	21,0	29	54,0	31	M8	√	20	2	4	50 / 10	3,78 / 0,8
KORo 150/10							M10						3,73 / 0,8
KORo 150/12							M12						3,55 / 0,8
KORo 150/14					57,0		M14						3,9 / 0,8
KORo 150/16							M16						3,88 / 0,8
KORo 150/20					61,5	35	M20						4,2 / 0,9
KORo 185/10	185	19,0	24,0	30	56,5	35	M10	√	23	2	4	50 / 10	4,92 / 1
KORo 185/12							M12						4,82 / 1
KORo 185/14					59,5		M14						5,35 / 1,1
KORo 185/16							M16						5,11 / 1,1
KORo 185/20					64,0	38	M20						5,5 / 1,2
KORo 240/10	240	21,0	26,0	38	73,5	38	M10	√	25	2	4	50 / 10	7,3 / 1,5
KORo 240/12							M12						
KORo 240/14							M14						7,2 / 1,5
KORo 240/16							M16						7,1 / 1,5
KORo 240/20							M20						7 / 1,5

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KORo 300/10	300	24,0	30,0	45	82,5	43	M10	–	28	2	-	25 / 10	5,7 / 2,3
KORo 300/12							M12						5,5 / 2,3
KORo 300/14							M14						
KORo 300/16							M16						5,5 / 2,2
KORo 300/20							M20						5,2 / 2,2
KORo 400/12	400	27,5	33,5	50	90	49	M12	–	32	2	-	25 / 1	6,7 / 0,3
KORo 400/14							M14						7 / 0,3
KORo 400/16							M16						6,6 / 0,3
KORo 400/20							M20						
KORo 500/12	500	31,0	38,0	70	112,5	55	M12	–	36	3	-	25 / 1	10,97 / 0,5
KORo 500/16							M16						10,85 / 0,5
KORo 500/20							M20						
KORo 625/12	625	34,0	40,0	70	114,0	60	M12	–	42	3	-	25 / 1	10,6 / 0,5
KORo 625/16							M16						
KORo 625/20							M20						10,33 / 0,5

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular ring terminals, KORI type

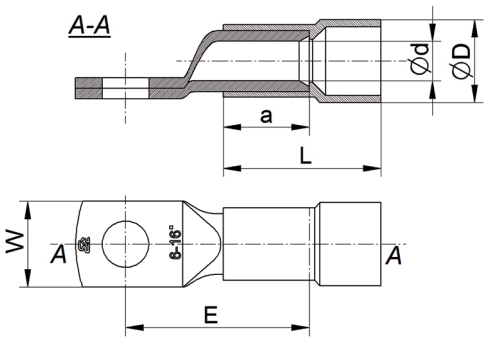
FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating and insulating sleeve
- description of cable cross-section and terminal size on fin surface
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification



MECHANICAL DATA

Insulation	polyamide 6.6
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ +95



CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com.

Type	Cross-section, rm/ sm [mm²]	d	D	a	E	L	W	Insulation colour	Screw hole	Quantity in package [pcs]	Weight [kg]
KORI 10/5	10	4,5	7,0	10	21,0	19,0	12,0	red	M5	100	0,55
KORI 10/6					21,5				M6		0,54
KORI 10/8					23,5		15,0		M8		0,62
KORI 10/10					25,5		17,0		M10		0,67
KORI 10/12					26,5		19,0		M12		0,66
KORI 16/5	16	5,5	8,5	13	25,0	23,0	12,0	blue	M5	100	0,94
KORI 16/6					25,5				M6		0,93
KORI 16/8					27,5		15,0		M8		1
KORI 16/10					29,5		17,0		M10		1,03
KORI 16/12					30,5		19,0		M12		1,13
KORI 25/5	25	7,0	10,0	15	28,0	26,0	14,0	yellow	M5	100	1,22
KORI 25/6					28,5				M6		1,26
KORI 25/8					30,5		16,0		M8		1,29
KORI 25/10					32,5		18,0		M10		1,34
KORI 25/12					33,5		19,0		M12		
KORI 25/14					35,5		21,0		M14		1,49
KORI 35/6	35	8,5	12,0	17	31,5	28,0	18,0	red	M6	100	1,65
KORI 35/8					33,5				M8		1,85
KORI 35/10					35,5				M10		1,99
KORI 35/12					36,5		20,0		M12		2,15
KORI 35/14					38,5		21,0		M14		2,1
KORI 35/16					39,5		26,0		M16		2,25

Type	Cross-section, rm/sm [mm²]	d	D	a	E	L	W	Insulation colour	Screw hole	Quantity in package [pcs]	Weight [kg]
KORI 50/6	50	10,0	14,0	19	34,5	35,0	20,0	blue	M6	100	2,64
KORI 50/8					36,5				M8		2,86
KORI 50/10					38,5				M10		3,11
KORI 50/12					39,5		23,0		M12		3,01
KORI 50/14					41,5				M14		3,26
KORI 50/16					42,5		28,0		M16		3,36
KORI 50/20					47,0		30,0		M20		3,66
KORI 70/6	70	12,0	16,5	21	40,5	37,0	23,0	yellow	M6	100	4,32
KORI 70/8									M8		4,27
KORI 70/10					43,5				M10		4,67
KORI 70/12									M12		4,47
KORI 70/14					46,5		28,0		M14		4,97
KORI 70/16									M16		4,77
KORI 70/20					51,0		31,0		M20		5,07
KORI 95/8	95	13,5	18,0	24	47,0	40,0	26,0	red	M8	50	2,85
KORI 95/10									M10		2,77
KORI 95/12									M12		2,7
KORI 95/14					50,0				M14		2,9
KORI 95/16							29,0		M16		
KORI 95/20					54,5		35,0		M20		3,15
KORI 120/8	120	15,0	19,5	26	50,0	42,0	29,0	blue	M8	50	3,36
KORI 120/10									M10		3,21
KORI 120/12									M12		3,23
KORI 120/14					53,0				M14		3,46
KORI 120/16									M16		
KORI 120/20					57,5		35,0		M20		3,56

Insulated tubular ring terminals with inspection hole KORol type

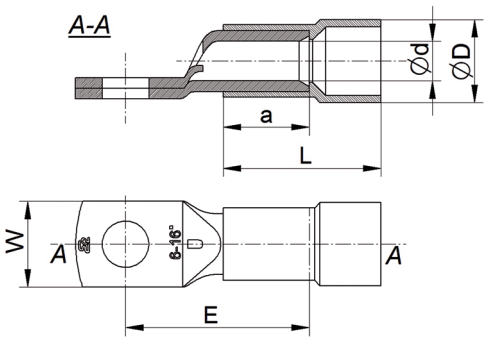
FEATURES & BENEFITS

- ring terminal, Cu, with inspection hole, standard, with galvanic tin plating and insulating sleeve
- description of cable cross-section and terminal size on fin surface
- insulating sleeve: enhances resistance to vibrations, mitigates short-circuit risk, facilitates cable installation
- sleeve colours facilitate cross-section identification



MECHANICAL DATA

Insulation	polyamide 6.6
Material	Cu
Covering	tin-plated
Operating temperature [°C]	-30 ÷ 95



CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped wires (sm) must be “round” formed.

Other insulation colours on request

UL certificate - for up-to-date information, visit www.ergom.com

Type	Cross-section, rm/ sm [mm²]	d	D	a	E	L	W	Insulation colour	Screw hole	Quantity in package [pcs]	Weight [kg]
KORol 10/5	10	4,5	7	10	21,0	19,0	12	red	M5	100	0,55
KORol 10/6					21,5				M6		0,54
KORol 10/8					23,5		15		M8		0,62
KORol 10/10					25,5		17		M10		0,67
KORol 10/12					26,5		19		M12		0,66
KORol 16/5	16	5,5	8,5	13	25,0	23,0	12	blue	M5	100	0,94
KORol 16/6					25,5				M6		0,93
KORol 16/8					27,5		15		M8		1
KORol 16/10					29,5		17		M10		1,03
KORol 16/12					30,5		19		M12		1,13
KORol 25/5	25	7	13	15	28,0	26,0	14	yellow	M5	100	1,22
KORol 25/6					28,5				M6		1,26
KORol 25/8					30,5		16		M8		1,29
KORol 25/10					32,5		18		M10		1,34
KORol 25/12					33,5		19		M12		
KORol 25/14					35,5		21		M14		1,49
KORol 35/6	35	8,5	12	17	31,5	28,0	18	red	M6	100	1,65
KORol 35/8					33,5				M8		1,85
KORol 35/10					35,5				M10		1,99
KORol 35/12					36,5		20		M12		2,15
KORol 35/14					38,5		21		M14		2,1
KORol 35/16					39,5		26		M16		2,25

Type	Cross-section, rm/ sm [mm²]	d	D	a	E	L	W	Insulation colour	Screw hole	Quantity in package [pcs]	Weight [kg]
KORol 50/6	50	10	14	19	34,5	35,0	20	blue	M6	100	2,64
KORol 50/8					36,5				M8		2,86
KORol 50/10					38,5				M10		3,11
KORol 50/12					39,5		23		M12		3,01
KORol 50/14					41,5				M14		3,26
KORol 50/16					42,5		28		M16		3,36
KORol 50/20					47,0		30		M20		3,66
KORol 70/6	70	12	16,5	21	40,5	37,0	23	yellow	M6	100	4,32
KORol 70/8									M8		4,27
KORol 70/10					43,5				M10		4,67
KORol 70/12									M12		4,47
KORol 70/14					46,5		28		M14		4,97
KORol 70/16									M16		4,77
KORol 70/20					51,0		31		M20		5,07
KORol 95/8	95	13,5	18	24	47,0	40,0	26	red	M8	50	2,85
KORol 95/10									M10		2,77
KORol 95/12									M12		2,7
KORol 95/14					50,0				M14		2,9
KORol 95/16							29		M16		
KORol 95/20					54,5		35		M20		3,15
KORol 120/8	120	15	19,5	26	50,0	42,0	29	blue	M8	50	3,36
KORol 120/10									M10		3,21
KORol 120/12									M12		3,23
KORol 120/14					53,0				M14		3,46
KORol 120/16									M16		
KORol 120/20					57,5		35		M20		3,56

“Narrowed” tubular ring terminals, KORW type

FEATURES & BENEFITS

- ring terminal Cu, “narrow fin” version, with galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- fin width adjusted to switchgear terminal width

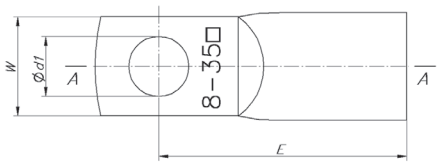


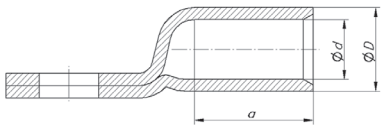
LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Cu
Covering	tin-plated





CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/ sm [mm²]	d	D	d_1	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Weight [kg]
KORW 25/6	25	7	10	6,5	15	29,5	10	M6	√	10	1	2	0,12
KORW 35/6	35	8,5	12	6,5	17	33	15	M6	√	12	1	2	0,18
KORW 35/8				8,5		35		M8					0,22
KORW 50/6	50	10	14	6,5	19	37	15	M6	√	14	1	2	0,27
KORW 50/8				8,5		39	17	M8					0,28
KORW 50/10				10,5		41		M10					0,3
KORW 70/6	70	12	16,5	6,5	21	41	17	M6	√	16	1	2	0,4
KORW 70/8				8,5		43		M8					0,41
KORW 70/10				10,5		45		M10					0,44
KORW 70/12				13		46	19	M12					0,45
KORW 95/6	95	13,5	18	6,5	23	43	19	M6	√	17	1	2	0,46
KORW 95/8				8,5		45		M8					0,48
KORW 95/10				10,5		47		M10					0,5
KORW 95/12				13		48		M12					0,52
KORW 120/6	120	15	19,5	6,5	26	49	20	M6	√	19	1	2	0,62
KORW 120/8				8,5		51		M8					0,68
KORW 120/10				10,5		53		M10					0,64
KORW 120/12				13		54		M12					0,69
KORW 150/6	150	16,5	21	6,5	29	52	20	M6	√	20	2	4	0,68
KORW 150/8				8,5		54		M8					0,71
KORW 150/10				10,5		56		M10					0,74
KORW 150/12				13		57		M12					
KORW 185/8	185	19	24	8,5	30	58	26	M8	√	23	2	4	0,98
KORW 185/10				10,5		60		M10					1,03
KORW 185/12				13				M12					1,02
KORW 185/16				17		64		M16					1,07

Type	Cross-section, rm/ sm [mm²]	d	D	d_1	a	E	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Weight [kg]
KORW 240/8	240	21	26	8,5	35	63	30	M8	√	25	2	4	1,13
KORW 240/10				10,5		65		M10					1,18
KORW 240/12				13				M12					1,16
KORW 240/16				17		69		M16					1,2
KORW 300/10	300	24	30	10,5	42	76	30	M10	–	28	2	-	2,28
KORW 300/12				13		79		M12					2,2
KORW 300/16				17		81		M16					

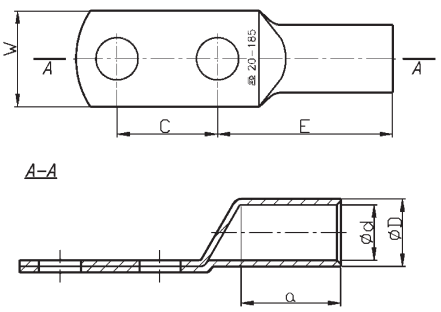
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals for 2 bolts KOR ... 2X type

FEATURES & BENEFITS

- two-ring terminal Cu, standard, with galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- other designs on client's request





A–A

LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.
On special request, elements can be bent at 45° (K45L…2X) or 90° (K90L… 2X) with an extended fin (screw spacing on request).

Type	Cross-section, rm/ sm [mm²]	d	D	a	C	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KOR 50/2x10	50	10,0	14,0	19	30	39,0	20	M10	14	1	2	0,06
KOR 50/2x12								M12				
KOR 70/2x10	70	12,0	16,5	21	50	43,0	25	M10	16	1	2	0,09
KOR 70/2x12								M12				
KOR 95/2x10	95	13,5	18,0	24	50	47,0	25	M10	17	1	2	0,12
KOR 95/2x12-40								M12				
KOR 120/2x12-50	120	15,0	19,5	26	50	54,0	28	M12	19	1	2	0,12
KOR 120/2x12-60					60							
KOR 150/2x12	150	16,5	21,0	29	50	56,0	31	M12	20	2	4	0,13
KOR 185/2x12	185	19,0	24,0	30	50	56,0	35	M12	23	2	4	0,16
KOR 240/2x12	240	21,0	26,0	38	50	73,5	38	M12	25	2	4	0,22
KOR 240/2x16								M16				
KOR 300/2x12-2	300	24,0	30,0	45	50	82,5	43	M12	28	2	-	0,32
KOR 300/2x16								M16				0,3
KOR 400/2x16	400	27,5	33,5	50	50	90,0	49	M16	32	2	-	0,38
KOR 400/2x20								M20				0,37
KOR 500/2x16	500	31,0	38,0	70	50	112,5	55	M16	36	3	-	0,56
KOR 500/2x20								M20				0,55
KOR 625/2x16	625	34,0	40,0	70	50	114,0	60	M16	42	3	-	0,55
KOR 625/2x20								M20				0,52

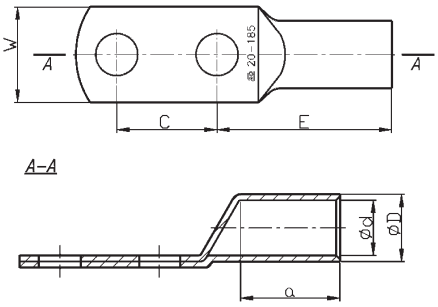
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals for 2 bolts KM ... 2X type

FEATURES & BENEFITS

- two-ring terminal Cu, standard, without galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- other designs on client's request





LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	Cu
Covering	uncoated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

On special request, elements can be bent at 45° (K45L…2X) or 90° (K90L… 2X) with an extended fin (screw spacing on request).

Type	Cross-section, rm/ sm [mm²]	d	D	a	C	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KM 50/2x10	50	10,0	14,0	19	30	39,0	20	M10	14	1	2	0,06
KM 50/2x12								M12				
KM 70/2x10	70	12,0	16,5	21	50	43,0	25	M10	16	1	2	0,09
KM 70/2x12								M12				
KM 95/2x10	95	13,5	18,0	24	50	47,0	25	M10	17	1	2	0,12
KM 95/2x12								M12				
KM 120/2x12-50	120	15,0	19,5	26	50	54,0	28	M12	19	1	2	0,12
KM 120/2x12-60												
KM 150/2x12	150	16,5	21,0	29	50	56,0	31	M12	20	2	4	0,13
KM 185/2x12	185	19,0	24,0	30	50	56,0	35	M12	23	2	4	0,16
KM 240/2x12	240	21,0	26,0	38	50	73,5	38	M12	25	2	4	0,22
KM 240/2x16								M16				
KM 300/2x12	300	24,0	30,0	45	50	82,5	43	M12	28	2	-	0,32
KM 300/2x16								M16				0,3
KM 400/2x16	400	27,5	33,5	50	50	90,0	49	M16	32	2	-	0,38
KM 400/2x20								M20				0,37
KM 500/2x16	500	31,0	38,0	70	50	112,5	55	M16	36	3	-	0,56
KM 500/2x20								M20				0,55
KM 625/2x16	625	34,0	40,0	70	50	114,0	60	M16	42	3	-	0,55
KM 625/2x20								M20				0,52

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular spade terminals, KWR type

FEATURES & BENEFITS

- spade terminal Cu, standard, with galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- other designs on client's request

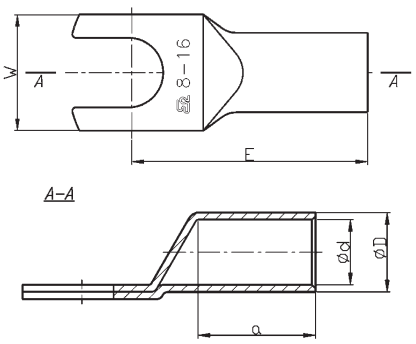


LOGISTIC DATA

Quantity in package [pcs]	100

MECHANICAL DATA

Material	Cu
Covering	tin-plated



CRIMPING SHAPE

Number of crimping - narrow	1

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Weight [kg]
KWR 0,75/4	0,75	1,3	2,8	6	13,0	6,5	M4	-	-	0,06
KWR 0,75/5					15,0	7,5	M5			
KWR 1,5/5	1,8	1,6	3,3	6	14,0	7,5	M5	-	-	0,09
KWR 1,5/6					16,0	9,0	M6			
KWR 2,5/4	2,5	2,3	4,2	6	13,0	7,0	M4	-	-	0,12
KWR 2,5/5					14,0	7,5	M5			
KWR 2,5/6					16,0	9,5	M6			0,14
KWR 4/4	4	3,0	5,0	8	17,0	8,5	M4	-	-	0,21
KWR 4/5						9,0	M5			0,2
KWR 4/6					19,0	10,0	M6			0,23
KWR 6/4	6	3,6	5,6	9	18,0	9,5	M4	4	1	0,28
KWR 6/5					19,0		M5			0,29
KWR 6/6							M6			0,28
KWR 6/8					22,0	14,0	M8			0,3
KWR 6/10					25,0	16,0	M10			0,33
KWR 10/5	10	4,5	7,0	10	21,0	12,0	M5	7	1	0,5
KWR 10/6					21,5		M6			0,48
KWR 10/8					23,5	15,0	M8			0,5
KWR 10/10					25,5	17,0	M10			0,55
KWR 16/5	16	5,5	8,5	13	25,0	12,0	M5	8	1	0,8
KWR 16/6					25,5		M6			0,82
KWR 16/8					27,5	15,0	M8			0,9
KWR 16/10					29,5	17,0	M10			0,98

Lz/s - Number of crimping - wide

Tubular spade terminals with inspection hole KWRo type

FEATURES & BENEFITS

- spade terminal, Cu, standard, with galvanic tin plating and inspection hole
- description of cable cross-section and terminal size on fin surface

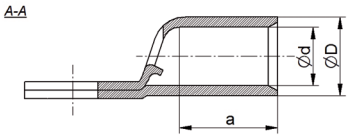


LOGISTIC DATA

Quantity in package [pcs]	100

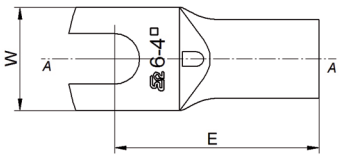
MECHANICAL DATA

Material	Cu
Covering	tin-plated



CRIMPING SHAPE

Number of crimping - narrow	1



CERTIFICATES & STANDARDS

Design	standard

NOTE!

- sector-shaped conductors (sm) must be “rounded”;
- use tools as for KWR terminals.

Type	Cross-section, rm/ sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Weight [kg]
KWRo 0,75/4	0,75	1,3	2,8	6	13,0	6,5	M4	-	-	0,06
KWRo 0,75/5					15,0	7,5	M5			
KWRo 1,5/5	1,8	1,6	3,3	6	14,0	7,5	M5	-	-	0,09
KWRo 1,5/6					16,0	9,0	M6			
KWRo 2,5/4	2,5	2,3	4,2	6	13,0	7,0	M4	-	-	0,12
KWRo 2,5/5					14,0	7,5	M5			
KWRo 2,5/6					16,0	9,5	M6			0,14
KWRo 4/4	4	3,0	5,0	8	17,0	8,5	M4	-	-	0,21
KWRo 4/5						9,0	M5			0,2
KWRo 4/6					19,0	10,0	M6			0,23
KWRo 6/4	6	3,6	5,6	9	18,0	9,5	M4	4	1	0,28
KWRo 6/5					19,0		M5			0,29
KWRo 6/6							M6			0,28
KWRo 6/8					22,0	14,0	M8			0,3
KWRo 6/10					25,0	16,0	M10			0,33
KWRo 10/5	10	4,5	7,0	10	21,0	12,0	M5	7	1	0,5
KWRo 10/6					21,5		M6			0,48
KWRo 10/8					23,5	15,0	M8			0,5
KWRo 10/10					25,5	17,0	M10			0,55
KWRo 16/5	16	5,5	8,5	13	25,0	12,0	M5	8	1	0,8
KWRo 16/6					25,5		M6			0,82
KWRo 16/8					27,5	15,0	M8			0,9
KWRo 16/10					29,5	17,0	M10			0,98

Lz/s - Number of crimping - wide

Tubular angle terminals, K90R type

FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating and 90 degrees angle terminal fixture
- description of cable cross-section and terminal size on fin surface

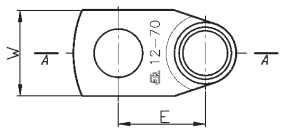


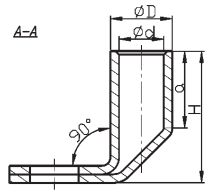
MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard





NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.
Other designs on request.
UL certificate - visit www.ergom.com

c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	H	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K90R 6/4	6	4,0	6,0	9	9,0	9,5	13,0	M4	–	4	1	1	100	0,3
K90R 6/5								M5						0,32
K90R 6/6					12,5	10,0		M6						0,34
K90R 6/8						14,0		M8						0,41
K90R 10/5	10	4,5	7,0	10	13,5	12,0	15,0	M5	–	7	1	1	100 / 10	0,65 / 0,07
K90R 10/6								M6						
K90R 10/8					16,5	15,0		M8						0,71 / 0,08
K90R 10/10					18,5	17,0		M10						0,77 / 0,08
K90R 10/12						19,0		M12						
K90R 16/5	16	5,5	8,5	13	14,5	12,0	20,0	M5	–	8	1	2	10 / 100	0,1 / 1
K90R 16/6								M6	√				100 / 10	1,1 / 0,11
K90R 16/8					17,5	15,0		M8						1,15 / 0,12
K90R 16/10					19,5	17,0		M10						1,2 / 0,12
K90R 16/12						19,0		M12						
K90R 25/5	25	7,0	10,0	15	15,0	14,0	23,5	M5	√	10	1	2	10 / 100	0,14 / 1,4
K90R 25/6								M6					100 / 10	1,45 / 0,15
K90R 25/8					18,0	16,0		M8						1,5 / 0,15
K90R 25/10					20,0	18,0		M10						1,6 / 0,16
K90R 25/12						19,0		M12						1,55 / 0,16
K90R 25/14					23,0			M14						1,6 / 0,16
K90R 35/6	35	8,5	12,0	17	16,0	18,0	27,0	M6	√	12	1	2	100 / 10	2,3 / 0,23
K90R 35/8					19,0			M8						2,4 / 0,24
K90R 35/10					21,0			M10						2,45 / 0,25
K90R 35/12						20,0		M12						2,4 / 0,24
K90R 35/14					24,0	21,0		M14						2,45 / 0,24
K90R 50/6	50	10,0	14,0	19	21,5	20,0	31,0	M6	√	14	1	2	100 / 10	3,25 / 0,33
K90R 50/8								M8						3,4 / 0,34
K90R 50/10					23,5			M10						3,5 / 0,35
K90R 50/12						23,0		M12						
K90R 50/14					24,0			M14						3,7 / 0,37
K90R 50/16					25,0	28,0		M16						

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	H	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K90R 70/6	70	12,0	16,5	21	21,5	23,0	35,0	M6	√	16	1	2	100 / 10	4,7 / 0,47
K90R 70/8								M8						4,85 / 0,49
K90R 70/10					23,5			M10						5,1 / 0,51
K90R 70/12								M12						5 / 0,5
K90R 70/14					26,5	25,0		M14						5,2 / 0,52
K90R 70/16						28,0		M16						5,3 / 0,53
K90R 95/8	95	13,5	18,0	24	25,0	26,0	37,0	M8	√	17	1	2	50 / 10	3,12 / 0,63
K90R 95/10					26,0			M10						3,1 / 0,62
K90R 95/12					27,0			M12						
K90R 95/14					29,0			M14						3,6 / 0,72
K90R 95/16					31,0	29,0		M16						3,3 / 0,66
K90R 95/20					33,0	35,0		M20						
K90R 120/8	120	15,0	19,5	26	26,0	28,0	43,0	M8	√	19	1	2	50 / 10	3,8 / 0,76
K90R 120/10					27,0	29,0		M10						
K90R 120/12					28,0			M12						3,7 / 0,74
K90R 120/16					32,0			M16						4,3 / 0,86
K90R 120/20					34,0	35,0		M20						4,4 / 0,88
K90R 150/10	150	16,5	21,0	30	27,5	31,0	41,0	M10	√	20	1	2	50 / 10	3,9 / 0,78
K90R 150/12					28,5			M12						4,3 / 0,86
K90R 150/14					30,5			M14						
K90R 150/16					32,5			M16						4,2 / 0,84
K90R 150/20					34,5	36,0		M20						4,5 / 0,9
K90R 185/10	185	19,0	24,0	32	34,0	35,0	46,0	M10	√	23	2	4	50 / 10	6 / 1,2
K90R 185/12								M12						
K90R 185/14								M14						6,1 / 1,22
K90R 185/16								M16						5,9 / 1,18
K90R 185/20					36,0	38,0		M20						6 / 1,2
K90R 240/12	240	21,0	26,0	38	35,0	38,0	53,0	M12	√	25	2	4	50 / 10	7,1 / 1,42
K90R 240/14								M14						7,4 / 1,48
K90R 240/16								M16						7,1 / 14,2
K90R 240/20					37,0			M20						7,2 / 1,44
K90R 300/12	300	24,0	30,0	44	39,0	38,0	60,0	M12	–	28	2	-	10	2,8
K90R 300/20			30		38,8	43		M20						2,28

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular angle terminals, K45R type

FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating and 45 degrees angle terminal fixture
- description of cable cross-section and terminal size on fin surface

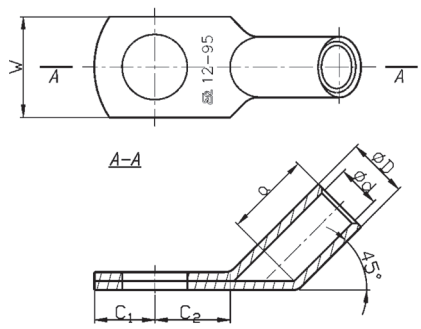


MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard



NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.
On special request, elbows can be bent at 30° (K30R) or 60° (K60R) or at any other angle.
UL certificate - visit www.ergom.com

c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/sm [mm²]	d	D	a	C1	C2	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K45R 6/4	6	4,0	6,0	9	6,0	6,0	9,5	M4	–	4	1	1	100	0,23
K45R 6/5								M5						0,29
K45R 6/6					8,5	9,5	10,0	M6						0,31
K45R 6/8							14,0	M8						0,32
K45R 10/5	10	4,5	7,0	10	7,5	10,0	12,0	M5	–	7	1	1	100 / 10	0,66 / 0,07
K45R 10/6								M6						
K45R 10/8					11,0	15,0	15,0	M8						0,72 / 0,08
K45R 10/10							17,0	M10						0,76 / 0,08
K45R 10/12					12,0		19,0	M12						
K45R 16/5	16	5,5	8,5	13	7,0	10,0	12,0	M5	√	8	1	2	100 / 10	1,1 / 0,11
K45R 16/6					7,5			M6						
K45R 16/8					9,0	13,0	15,0	M8						1,17 / 0,12
K45R 16/10					11,0	15,0	17,0	M10						1,24 / 0,13
K45R 16/12					12,0		19,0	M12						1,21 / 0,13
K45R 25/5	25	7,0	10,0	15	7,0	10,0	14,0	M5	√	10	1	2	100 / 10	1,4 / 0,14
K45R 25/6					7,5			M6						1,45 / 0,15
K45R 25/8					9,0	13,0	16,0	M8						1,5 / 0,15
K45R 25/10					12,0	15,0	18,0	M10						1,6 / 0,16
K45R 25/12							19,0	M12						1,55 / 0,16
K45R 25/14					14,0	18,0	21,0	M14						1,62 / 0,17
K45R 35/6	35	8,5	12,0	17	7,5	10,0	18,0	M6	√	12	1	2	100 / 10	2,2 / 0,22
K45R 35/8					9,0	13,0		M8						2,4 / 0,24
K45R 35/10					12,0	15,0		M10						2,52 / 0,26
K45R 35/12							20,0	M12						2,38 / 0,24
K45R 35/14					14,0	18,0	21,0	M14						2,4 / 0,24
K45R 35/16					16,0		26,0	M16						2,6 / 0,26
K45R 50/6	50	10,0	14,0	19	7,5	10,0	20,0	M6	√	14	1	2	100 / 10	3,2 / 0,32
K45R 50/8					9,0	13,0		M8						3,4 / 0,34
K45R 50/10					11,0	15,0		M10						3,56 / 0,36
K45R 50/12							23,0	M12						3,44 / 0,35
K45R 50/14					14,0	18,0		M14						3,6 / 0,36
K45R 50/16					16,0		28,0	M16						3,7 / 0,37
K45R 50/20					20,0	22,0	30,0	M20						4,3 / 0,43

Type	Cross-section, rm/sm [mm²]	d	D	a	C1	C2	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K45R 70/6	70	12,0	16,5	21	7,5	10,0	20,0	M6	√	16	1	2	100 / 10	4,6 / 0,46
K45R 70/8					9,0	13,0		M8						4,8 / 0,48
K45R 70/10					11,0	15,0		M10						5,1 / 0,51
K45R 70/12							23,0	M12						5 / 0,5
K45R 70/14					14,0	18,0		M14						5,25 / 0,53
K45R 70/16					16,0		28,0	M16						
K45R 70/20					20,0	22,0	30,0	M20						5,8 / 0,58
K45R 95/8	95	13,5	18,0	24	9,0	13,0	20,0	M8	√	17	1	2	50 / 10	3,2 / 0,64
K45R 95/10					11,0	15,0		M10						3,25 / 0,65
K45R 95/12							23,0	M12						3,24 / 0,65
K45R 95/14					14,0	18,0		M14						3,31 / 0,67
K45R 95/16					16,0		28,0	M16						
K45R 95/20					20,0	22,0	30,0	M20						3,5 / 0,7
K45R 120/8	120	15,0	19,5	26	12,0	16,0	28,0	M8	√	19	1	2	50 / 10	3,7 / 0,74
K45R 120/10						17,0	29,0	M10						
K45R 120/12						18,0		M12						3,64 / 0,73
K45R 120/14					16,0	20,0		M14						3,9 / 0,78
K45R 120/16						22,0		M16						4,95 / 0,99
K45R 120/20					20,0	24,0	35,0	M20						4,56 / 0,92
K45R 150/8	150	16,5	21,0	30	12,0	16,0	31,0	M8	√	20	1	2	50 / 10	4,36 / 0,88
K45R 150/10						17,0		M10						4,46 / 0,9
K45R 150/12						18,0		M12						4,36 / 0,88
K45R 150/14					16,0	20,0		M14						4,6 / 0,92
K45R 150/16						22,0		M16						4,63 / 0,93
K45R 150/20					23,0	24,0	36,0	M20						5,14 / 1,03
K45R 185/10	185	19,0	24,0	30	14,0	22,0	35,0	M10	√	23	2	4	50 / 10	6,3 / 1,26
K45R 185/12								M12						6,2 / 1,24
K45R 185/14					16,0			M14						6,15 / 1,23
K45R 185/16								M16						
K45R 185/20					20,0	24,0	38,0	M20						6,3 / 1,26
K45R 240/10	240	21,0	26,0	38	14,0	22,0	38,0	M10	√	25	2	4	50 / 10	7,76 / 1,56
K45R 240/12								M12						7,8 / 1,56
K45R 240/14					16,0			M14						7,7 / 1,54
K45R 240/16								M16						7,6 / 1,52
K45R 240/20					20,0	24,0		M20						7,9 / 1,58
K45R 300/12	300	24,0	30,0	45	15,0	24,0	43,0	M12	–	28	2	-	10	2,4
K45R 300/16					16,0			M16						
K45R 300/20					20,0			M20						2,44

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular angle terminals with inspection hole K90Ro type

FEATURES & BENEFITS

- ring terminal, Cu, standard, with galvanic tin plating with inspection hole and 90 degrees angle terminal fixture
- description of cable cross-section and terminal size on fin surface



MECHANICAL DATA

Material	Cu
Covering	tin-plated

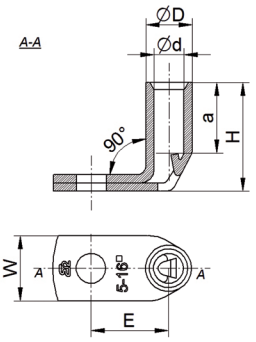
CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard

NOTE!

- sector-shaped conductors (sm) must be “rounded”;
- use tools as for K90R terminals.

UL certificate - for up-to-date information, visit www.ergom.com



c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	H	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K90Ro 6/4	6	4,0	6,0	9	9,0	9,5	13,0	M4	–	4	1	1	100	0,3
K90Ro 6/5								M5						0,32
K90Ro 6/6					12,5	10,0		M6						0,34
K90Ro 6/8						14,0		M8						0,41
K90Ro 10/5	10	4,5	7,0	10	13,5	12,0	15,0	M5	–	7	1	1	100	0,65
K90Ro 10/6								M6						
K90Ro 10/8					16,5	15,0		M8						0,71
K90Ro 10/10					18,5	17,0		M10						0,77
K90Ro 10/12						19,0		M12						
K90Ro 16/5	16	5,5	8,5	13	14,5	12,0	20,0	M5	–	8	1	2	100	1
K90Ro 16/6								M6	√					1,1
K90Ro 16/8					17,5	15,0		M8						1,15
K90Ro 16/10					19,5	17,0		M10						1,2
K90Ro 16/12						19,0		M12						
K90Ro 25/5	25	7,0	10,0	15	15,0	14,0	23,5	M5	–	10	1	2	100	1,4
K90Ro 25/6								M6	√					1,45
K90Ro 25/8					18,0	16,0		M8						1,5
K90Ro 25/10					20,0	18,0		M10						1,6
K90Ro 25/12						19,0		M12						1,55
K90Ro 25/14					23,0			M14						1,6
K90Ro 35/6	35	8,5	12,0	17	16,0	18,0	27,0	M6	√	12	1	2	100	2,3
K90Ro 35/8					19,0			M8						2,4
K90Ro 35/10					21,0			M10						2,45
K90Ro 35/12						20,0		M12						2,4
K90Ro 35/14					24,0	21,0		M14						2,45
K90Ro 50/6	50	10,0	14,0	19	17,0	20,0	31,0	M6	√	14	1	2	100	3,25
K90Ro 50/8					20,0			M8						3,4
K90Ro 50/10					22,0			M10						3,5
K90Ro 50/12						23,0		M12						
K90Ro 50/14					24,0			M14						3,7
K90Ro 50/16					25,0	28,0		M16						

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	H	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K90Ro 70/6	70	12,0	16,5	21	21,5	23,0	35,0	M6	√	16	1	2	100	4,7
K90Ro 70/8								M8						4,85
K90Ro 70/10					23,5			M10						5,1
K90Ro 70/12								M12						5
K90Ro 70/14					26,5	25,0		M14						5,2
K90Ro 70/16						28,0		M16						5,3
K90Ro 95/8	95	13,5	18,0	24	25,0	26,0	37,0	M8	√	17	1	2	50	3,12
K90Ro 95/10					26,0			M10						3,1
K90Ro 95/12					27,0			M12						
K90Ro 95/14					29,0			M14						3,6
K90Ro 95/16					31,0	29,0		M16						3,3
K90Ro 95/20					33,0	35,0		M20						
K90Ro 120/8	120	15,0	19,5	26	26,0	28,0	43,0	M8	√	19	1	2	50	3,8
K90Ro 120/10					27,0	29,0		M10						
K90Ro 120/12					28,0			M12						3,7
K90Ro 120/14					32,0			M16						4,3
K90Ro 120/16					34,0	35,0		M20						4,4
K90Ro 120/20	150	16,5	21,0	30	27,5	31,0	41,0	M10	√	20	1	2	50	3,9
K90Ro 150/10					28,5			M12						4,46
K90Ro 150/12					30,5			M14						4,36
K90Ro 150/14					32,5			M16						4,6
K90Ro 150/16					34,5	36,0		M20						4,63
K90Ro 150/20	185	19,0	24,0	32	34,0	35,0	46,0	M10	√	23	2	4	50	5,14
K90Ro 185/12								M12						6,3
K90Ro 185/14								M14						6,2
K90Ro 185/16								M16						6,15
K90Ro 185/20					36,0	38,0		M20						
K90Ro 240/12	240	21,0	26,0	38	35,0	38,0	53,0	M12	√	25	2	4	50	6,3
K90Ro 240/14								M14						7,76
K90Ro 240/16								M16						7,8
K90Ro 240/20					37,0			M20						7,7
K90Ro 300/12	300	24,0	30,0	44	39,5	43,0	60,0	M12	–	28	2	-	10	2,8
K90Ro 300/16				45				M16						2,28
K90Ro 300/20								M20						

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular angle terminals with inspection hole K45Ro type

FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating and 45 degrees angle terminal fixture
- description of cable cross-section and terminal size on fin surface



MECHANICAL DATA

Material	Cu
Covering	tin-plated

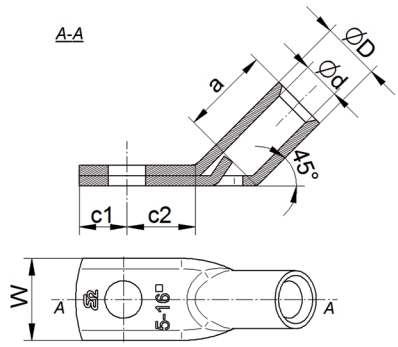
CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard

NOTE!

- sector-shaped conductors (sm) must be “rounded”;
- use tools as for K45R terminals.

UL certificate - for up-to-date information, visit www.ergom.com



c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/sm [mm²]	d	D	a	C1	C2	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K45Ro 6/4	6	4,0	6,0	9	6,0	6,0	9,5	M4	–	4	1	1	100	0,23
K45Ro 6/5								M5						0,29
K45Ro 6/6					8,5	9,5	10,0	M6						0,31
K45Ro 6/8							14,0	M8						0,32
K45Ro 10/5	10	4,5	7,0	10	7,5	10,0	12,0	M5	–	7	1	1	100	0,66
K45Ro 10/6								M6						
K45Ro 10/8					11,0	15,0	15,0	M8						0,72
K45Ro 10/10							17,0	M10						0,76
K45Ro 10/12					12,0		19,0	M12						
K45Ro 16/5	16	5,5	8,5	13	7,5	10,0	12,0	M5	√	8	1	2	100	1,15
K45Ro 16/6								M6						1,1
K45Ro 16/8					9,0	13,0	15,0	M8						
K45Ro 16/10					11,0	15,0	17,0	M10						1,17
K45Ro 16/12					12,0		19,0	M12						1,24
K45Ro 25/5	25	7,0	10,0	15	7,5	10,0	14,0	M5	√	10	1	2	100	1,31
K45Ro 25/6								M6						1,21
K45Ro 25/8					9,0	13,0	16,0	M8						1,4
K45Ro 25/10					12,0	15,0	18,0	M10						1,45
K45Ro 25/12							19,0	M12						1,5
K45Ro 25/14					14,0	18,0	21,0	M14						1,6
K45Ro 35/6	35	8,5	12,0	17	7,5	10,0	18,0	M6	√	12	1	2	100	1,55
K45Ro 35/8					9,0	13,0		M8						1,62
K45Ro 35/10					12,0	15,0		M10						2,2
K45Ro 35/12							20,0	M12						2,4
K45Ro 35/14					14,0	18,0	21,0	M14						2,52
K45Ro 35/16					16,0		26,0	M16						2,32
K45Ro 50/6	50	10,0	14,0	19	7,5	10,0	20,0	M6	√	14	1	2	100	2,38
K45Ro 50/8					9,0	13,0		M8						2,4
K45Ro 50/10					11,0	15,0		M10						2,6
K45Ro 50/12							23,0	M12						3,2
K45Ro 50/14					14,0	18,0		M14						3,4
K45Ro 50/16					16,0		28,0	M16						3,56
K45Ro 50/20					20,0		30,0	M20						3,24

Type	Cross-section, rm/sm [mm²]	d	D	a	C1	C2	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K45Ro 70/6	70	12,0	16,5	21	7,5	10,0	20,0	M6	√	16	1	2	100	3,44
K45Ro 70/8					9,0	13,0		M8						3,6
K45Ro 70/10					11,0	15,0	23,0	M10						3,7
K45Ro 70/12								M12						4,3
K45Ro 70/14					14,0	18,0		M14						4,6
K45Ro 70/16					16,0		28,0	M16						4,8
K45Ro 70/20					20,0		30,0	M20						4,4
K45Ro 95/8	95	13,5	18,0	24	9,0	13,0	20,0	M8	√	17	1	2	50	3,2
K45Ro 95/10					11,0	15,0		M10						3,25
K45Ro 95/12							23,0	M12						3,24
K45Ro 95/14					14,0	18,0		M14						3,31
K45Ro 95/16					16,0		28,0	M16						
K45Ro 95/20					20,0	22,0	30,0	M20						3,5
K45Ro 120/8	120	15,0	19,5	26	12,0	16,0	28,0	M8	√	19	1	2	50	3,7
K45Ro 120/10						17,0	29,0	M10						
K45Ro 120/12						18,0		M12						3,64
K45Ro 120/14					16,0	20,0		M14						3,9
K45Ro 120/16						22,0		M16						4,95
K45Ro 120/20					20,0	24,0	35,0	M20						4,56
K45Ro 150/8	150	16,5	21,0	30	12,0	17,0	31,0	M8	√	20	1	2	50	4,52
K45Ro 150/10								M10						4,36
K45Ro 150/12						18,0		M12						4,46
K45Ro 150/14					16,0	20,0		M14						4,36
K45Ro 150/16						22,0		M16						4,6
K45Ro 150/20					23,0	24,0	36,0	M20						4,63
K45Ro 185/10	185	19,0	24,0	30	14,0	22,0	35,0	M10	√	23	2	4	50	5,35
K45Ro 185/12								M12						5,14
K45Ro 185/14					16,0			M14						6,3
K45Ro 185/16								M16						6,2
K45Ro 185/20					20,0	24,0	38,0	M20						6,15
K45Ro 240/10	240	21,0	26,0	38	14,0	22,0	38,0	M10	√	25	2	4	50	6,15
K45Ro 240/12								M12						
K45Ro 240/14					16,0			M14						6,3
K45Ro 240/16								M16						7,76
K45Ro 240/20					20,0	24,0		M20						7,8
K45Ro 300/12	300	24,0	30,0	45	15,0	24,0	43,0	M12	–	28	2	-	10	2,4
K45Ro 300/16								M16						
K45Ro 300/20					20,0			M20						2,44

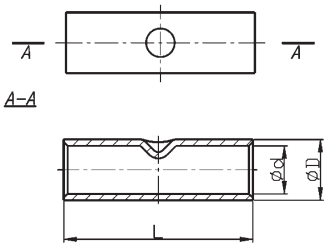
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

“Butt splice” compression connectors, KL type

FEATURES & BENEFITS

- connector Cu, standard, with galvanic tin plating, to make “butt splice” cable connections
- central stamping guarantees correct length of conductor insertion





MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

UL certificate	E475284
Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies. UL certificate - visit www.ergom.com

Type	Cross-section, rm/ sm [mm²]	d	D	L	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KL 10	10	4,5	7,0	30	√	7	1 - 1	1 - 1	100 / 10	0,6 / 0,1
KL 16	16	5,5	8,5	30	√	8	1 - 1	1 - 1	100 / 10	0,9 / 0,1
KL 25	25	7,0	10,0	38	√	10	1 - 1	2 - 2	100 / 10	1,3 / 0,2
KL 35	35	8,5	12,0	42	√	12	1 - 1	2 - 2	100 / 10	2,1 / 0,3
KL 50	50	10,0	14,0	48	√	14	1 - 1	2 - 2	100 / 10	3,2 / 0,4
KL 70	70	12,0	16,5	52	√	16	1 - 1	3 - 3	100 / 10	4,6 / 0,5
KL 95	95	13,5	18,0	58	√	17	1 - 1	3 - 3	50 / 10	2,8 / 0,6
KL 120	120	15,0	19,5	62	√	19	1 - 1	3 - 3	50 / 10	3,3 / 0,7
KL 150	150	16,5	21,0	68	√	20	2 - 2	4 - 4	50 / 10	4 / 0,8
KL 185	185	19,0	24,0	72	√	23	2 - 2	4 - 4	50 / 10	5,4 / 1,1
KL 240	240	21,0	26,0	88	√	25	2 - 2	5 - 5	50 / 10	7,1 / 1,5
KL 300	300	24,0	30,0	102	–	28	2 - 2	-	25 / 10	5,7 / 1,2
KL 400	400	27,5	33,5	112	–	32	2 - 2	-	25 / 1	7,4 / 1,5
KL 500	500	31,0	38,0	140	–	36	2 - 2	-	25 / 1	12,7 / 0,5
KL 625	625	34,0	40,0	160	–	42	3 - 3	-	25 / 1	12,5 / 0,5

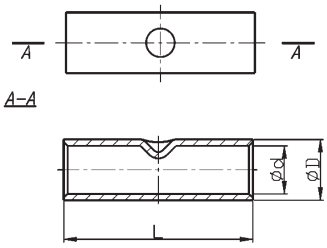
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

“Butt splice” connectors, ZM type

FEATURES & BENEFITS

- connector Cu, standard, without galvanic tin plating, to make “butt splice” cable connections
- central stamping guarantees correct length of conductor insertion





MECHANICAL DATA

Material	Cu
Covering	uncoated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
ZM 10	10	4,5	7,0	30	7	1 - 1	1 - 1	100 / 10	0,6 / 0,1
ZM 16	16	5,5	8,5	30	8	1 - 1	1 - 1	100 / 10	0,9 / 0,1
ZM 25	25	7,0	10,0	38	10	1 - 1	2 - 2	100 / 10	1,3 / 0,2
ZM 35	35	8,5	12,0	42	12	1 - 1	2 - 2	100 / 10	2,1 / 0,3
ZM 50	50	10,0	14,0	48	14	1 - 1	2 - 2	100 / 10	3,2 / 0,4
ZM 70	70	12,0	16,5	52	16	1 - 1	3 - 3	100 / 10	4,6 / 0,5
ZM 95	95	13,5	18,0	58	17	1 - 1	3 - 3	50 / 10	2,8 / 0,6
ZM 120	120	15,0	19,5	62	19	1 - 1	3 - 3	50 / 10	3,3 / 0,7
ZM 150	150	16,5	21,0	68	20	2 - 2	4 - 4	50 / 10	4 / 0,8
ZM 185	185	19,0	24,0	72	23	2 - 2	4 - 4	50 / 10	5,4 / 1,1
ZM 240	240	21,0	26,0	88	25	2 - 2	5 - 5	50 / 10	7,1 / 1,5
ZM 300	300	24,0	30,0	102	28	2 - 2	-	25 / 10	5,7 / 2,3
ZM 400	400	27,5	33,5	112	32	2 - 2	-	25 / 1	7,4 / 0,3
ZM 500	500	31,0	38,0	140	34	2 - 2	-	25 / 1	12,7 / 0,5
ZM 625	625	34,0	40,0	160	36	3 - 3	-	25 / 1	12,5 / 0,5

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

“Parallel compression” connectors, KLS type

FEATURES & BENEFITS

connector Cu, standard, with galvanic tin plating, to make “overlapping” cable connections

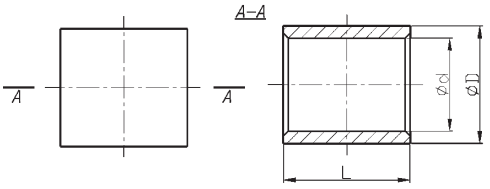


MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

Design	standard



Type	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KLS 10	10	4,5	7,0	10	7	1	2	100	0,2
KLS 16	16	5,5	8,5	11	8	1	2	100	0,3
KLS 25	25	7,0	10,0	14	10	1	2	100	0,5
KLS 35	35	8,5	12,0	16	12	1	2	100	0,6
KLS 50	50	10,0	14,0	19	14	1	2	100	1,3
KLS 70	70	12,0	16,5	19	16	1	2	100	1,7
KLS 95	95	13,5	18,0	20	17	1	2	50	1
KLS 120	120	15,0	19,5	22	19	1	2	50	1,2
KLS 150	150	16,5	21,0	26	20	1	2	50	1,5
KLS 185	185	19,0	24,0	30	23	2	3	50	2,2
KLS 240	240	21,0	26,0	34	25	2	3	50	2,8

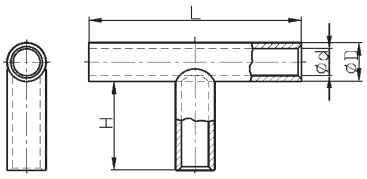
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Connectors, KT type

FEATURES & BENEFITS

T-shaped connector Cu, standard, with galvanic tin plating





LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	L	H	Socket code no.	Lz/s	Lz/w	Weight [kg]
KT 10	10	4,5	7,0	35	14	7	1	1	0,02
KT 16	16	5,5	8,5	50	21	8	1	1	0,03
KT 25	25	7,0	10,0	55	23	10	1	2	0,03
KT 35	35	8,5	12,0	70	30	12	1	2	0,06
KT 50	50	10,0	14,0	80	34	14	1	3	0,08
KT 70	70	12,0	16,5	85	35	16	1	3	0,11
KT 95	95	13,5	18,0	90	36	17	2	4	0,12
KT 120	120	15,0	19,5	95	38	19	2	4	0,15
KT 150	150	16,5	21,0	110	44	20	2	4	0,18
KT 185	185	19,0	24,0	115	45	23	2	4	0,24
KT 240	240	21,0	26,0	130	52	25	2	4	0,32
KT 300	300	24,0	30,0	155	62	28	2	-	0,37
KT 400	400	27,5	33,5	180	72	32	2	-	0,44

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression Connectors KX type

FEATURES & BENEFITS

X-shaped connector Cu, standard, with galvanic tin plating



MECHANICAL DATA

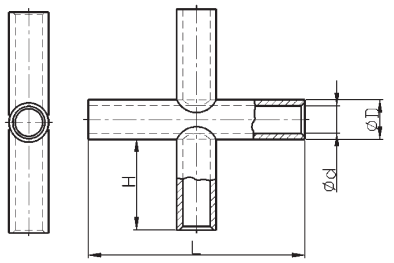
Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.



Type	Cross-section, rm/ sm [mm²]	d	D	L	H	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KX 10	10	4,5	7,0	35	14	7	1	1	1	0,02
KX 16	16	5,5	8,5	50	21	8	1	1	1	0,03
KX 25	25	7,0	10,0	55	23	10	1	2	1	0,04
KX 35	35	8,5	12,0	70	30	12	1	2	1	0,07
KX 50	50	10,0	14,0	80	34	14	1	3	1	0,1
KX 70	70	12,0	16,5	85	35	16	1	3	1	0,13
KX 95	95	13,5	18,0	90	36	17	2	4	1	0,16
KX 120	120	15,0	19,5	95	38	19	2	4	1	0,19
KX 150	150	16,5	21,0	110	44	20	2	4	1	0,26
KX 185	185	19,0	24,0	115	45	23	2	4	1	0,32
KX 240	240	21,0	26,0	130	52	25	2	4	1	0,4
KX 300	300	24,0	30,0	170	70	28	2	-	25 / 1	12,5 / 0,5
KX 400	400	27,5	33,5	190	78	32	2	-	25 / 1	15,5 / 0,62

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals, KOR type, without hole

FEATURES & BENEFITS

- ring terminal Cu, standard, with galvanic tin plating, without terminal hole
- description of cable cross-section on fin surface



MECHANICAL DATA

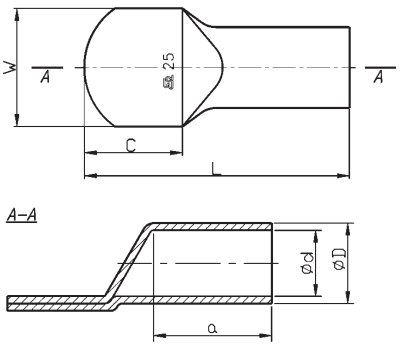
Material	Cu
Covering	tin-plated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.



Type	Cross-section, rm/ sm [mm²]	d	D	a	C	L	W	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KOR 10	10	4,5	7,0	10	19	33	17	7	1	1	10	0,07
KOR 16	16	5,5	8,5	13	23	40,5	17	8	1	2	10	0,12
KOR 25	25	7,0	10,0	15	23	43,5	18	10	1	2	10	0,15
KOR 35	35	8,5	12,0	17	25	48,5	20	12	1	2	10	0,24
KOR 50	50	10,0	14,0	19	25	52	23	14	1	2	10	0,34
KOR 70	70	12,0	16,5	21	25	55	23	16	1	2	10	0,5
KOR 95	95	13,5	18,0	24	32	66	29	17	1	2	10	0,65
KOR 120	120	15,0	19,5	26	32	69	29	19	1	2	10	0,74
KOR 150	150	16,5	21,0	29	32	73	31	20	2	4	10	0,86
KOR 185	185	19,0	24,0	30	32	76	35	23	2	4	10	1,14
KOR 240	240	21,0	26,0	38	40	93,5	38	25	2	4	10	1,56
KOR 300	300	24,0	30,0	45	40	102,5	43	28	2	-	1	0,26
KOR 400	400	27,5	33,5	50	40	110	49	32	2	-	1	0,28
KOR 500	500	31,0	38,0	70	40	132,5	55	36	3	-	1	0,46
KOR 625	625	34,0	40,0	70	45	139	60	42	3	-	1	0,42

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals, KM type, without hole

FEATURES & BENEFITS

- ring terminal Cu, standard, without galvanic tin plating and terminal hole
- description of cable cross-section on fin surface



MECHANICAL DATA

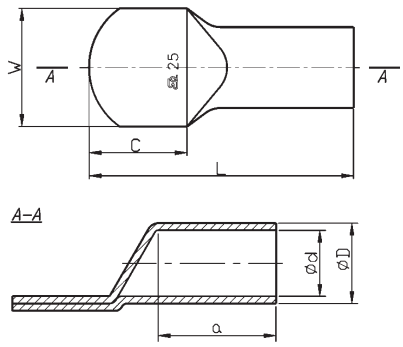
Material	Cu
Covering	uncoated

CERTIFICATES & STANDARDS

Design	standard

NOTE!

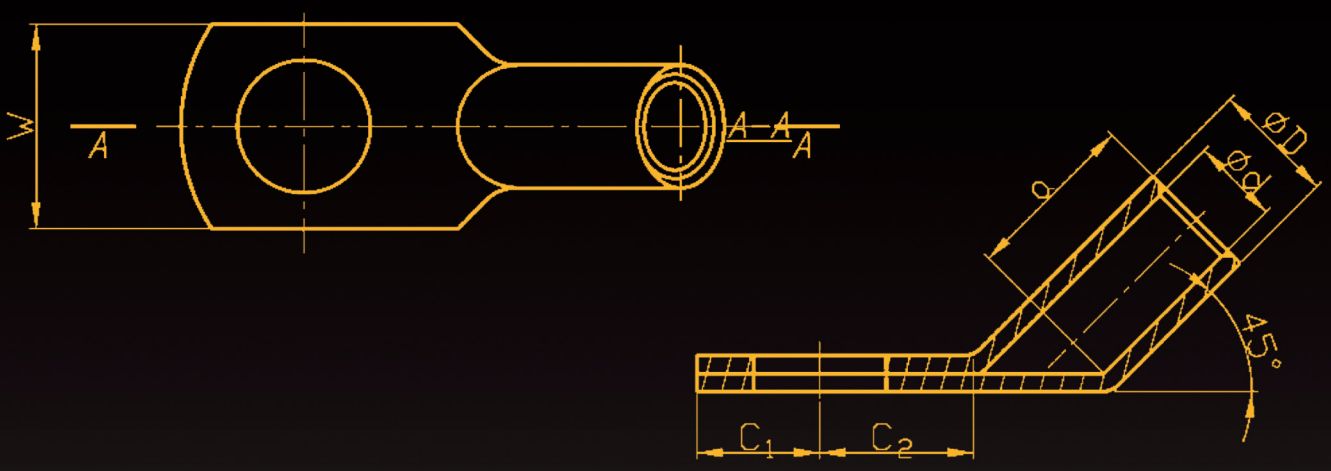
Sector-shaped conductors (sm) must be rounded with special dies.



Type	Cross-section, rm/sm [mm²]	d	D	a	C	L	W	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KM 10	10	4,5	7,0	10	19	33	17	7	1	1	10	0,07
KM 16	16	5,5	8,5	13	19	33	17	8	1	2	10	0,12
KM 25	25	7,0	10,0	15	23	40,5	17	10	1	2	10	0,15
KM 35	35	8,5	12,0	17	23	43,5	18	12	1	2	10	0,24
KM 50	50	10,0	14,0	19	25	48,5	20	14	1	2	10	0,34
KM 70	70	12,0	16,5	21	25	52	23	16	1	2	10	0,5
KM 95	95	13,5	18,0	24	25	55	23	17	1	2	10	0,65
KM 120	120	15,0	19,5	26	32	66	29	19	1	2	10	0,74
KM 150	150	16,5	21,0	29	32	69	29	20	2	4	10	0,86
KM 185	185	19,0	24,0	30	32	73	31	23	2	4	10	1,14
KM 240	240	21,0	26,0	38	32	76	35	25	2	4	10	1,56
KM 300	300	24,0	30,0	45	40	102,5	43	28	2	-	1	0,26
KM 400	400	27,5	33,5	50	40	110	49	32	2	-	1	0,28
KM 500	500	31,0	38,0	70	40	132,5	55	36	3	-	1	0,46
KM 625	625	34,0	40,0	70	45	139	60	42	3	-	1	0,42

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

ERGOM®





Cu DIN tubular terminals

Cu DIN tubular terminals - ring terminals

Tubular terminals, KDR type	213
Tubular terminals, KDM type	215
Tubular terminals for 2 bolts KDR ... 2X type	217
Tubular terminals for 2 bolts KDM ... 2X type	218
Tubular terminals for 4 bolts, KDR…4X type	219

Cu DIN tubular terminals - angle terminals

Tubular angle terminals, K90D type	220
Tubular angle terminals, K45D type	222

Cu DIN tubular terminals - joints

Connectors, KLD type	224
Compression connectors with barrier, LMP type	225
Non-tension compression reducing tubular cable connectors with barrier, LMP .../... type	226
Compression connectors, LMW type	227
Compression connectors, with barrier, LMWP ... type	228
Non-tension compression reducing tubular cable connectors with barrier, LMWP .../... type	229

Tubular terminals, KDR type

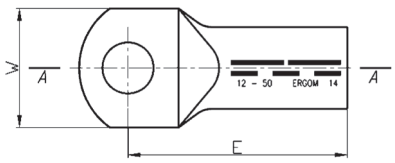
FEATURES & BENEFITS

- ring terminal Cu, as per DIN, with galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- for demanding applications
- very wide range



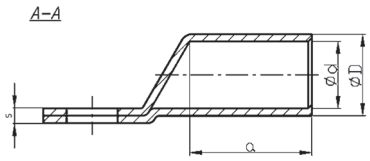
MECHANICAL DATA

Material	Cu
Covering	tin-plated



CERTIFICATES & STANDARDS

UL certificate	E475284
Design	DIN 46235



NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com

Type	Cross-section, rm/sm [mm²]	d	D	s	a	E	W	Screw hole	DIN	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDR 6/4	6	3,8	5,5	1,5	10	24	8,5	M4	√	–	5	-	1	100	0,28
KDR 6/5								M5							
KDR 6/6								M6							0,31
KDR 6/8								M8							
KDR 10/5	10	4,5	6,0	1,5	12	27	9	M5	√	√	6	-	1	100 / 10	0,4 / 0,04
KDR 10/6								M6							0,45 / 0,05
KDR 10/8				1,0			13	M8	–						0,4 / 0,04
KDR 16/6	16	5,5	8,5	2,5	20	36	13	M6	√	√	8	1	2	100 / 10	1,3 / 0,13
KDR 16/8								M8							1,4 / 0,14
KDR 16/10							17	M10							
KDR 16/12				2,0		38	19	M12	–						
KDR 25/6	25	7,0	10,0	3,0	20	38	14	M6	√	√	10	1	2	100 / 10	1,65 / 0,17
KDR 25/8							16	M8							
KDR 25/10							17	M10							
KDR 25/12							19	M12							
KDR 25/14				2,0		40	21	M14	–						1,9 / 0,19
KDR 25/16				1,0		45	25	M16							1,8 / 0,18
KDR 35/6	35	8,2	12,5	4,0	20	42	17	M6	–	√	12	1	2	100 / 10	3 / 0,3
KDR 35/8				3,5				M8	√						3,1 / 0,31
KDR 35/10							19	M10							
KDR 35/12				3,0			21	M12							
KDR 35/14						44	23	M14	–						
KDR 35/16				2,5		45	28	M16							3,3 / 0,33

Type	Cross-section, rm/sm [mm²]	d	D	s	a	E	W	Screw hole	DIN	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDR 50/8	50	10,0	14,5	4,0	28	52	20	M8	√	√	14	2	3	100 / 10	4,38 / 0,44
KDR 50/10							22	M10							4,7 / 0,47
KDR 50/12							24	M12							4,75 / 0,48
KDR 50/14							26	M14	–						4,7 / 0,47
KDR 50/16							28	M16	√						4,6 / 0,46
KDR 70/8	70	11,5	16,5	4,5	28	55	24	M8	√	√	16	2	3	100 / 10	6 / 0,6
KDR 70/10								M10							6,3 / 0,63
KDR 70/12								M12							6,4 / 0,64
KDR 70/14				4,0			26	M14	–						6,55 / 0,66
KDR 70/16							30	M16	√						6,2 / 0,62
KDR 70/20				3,0			34	M20	–						6,65 / 0,67
KDR 95/8	95	13,5	19,0	5,0	35	65	28	M8	√	√	18	2	4	50 / 10	4,6 / 0,92
KDR 95/10								M10							4,8 / 0,96
KDR 95/12								M12							4,7 / 0,94
KDR 95/14							30	M14							4,8 / 0,96
KDR 95/16							32	M16							4,75 / 0,95
KDR 95/20				4,0		69	35	M20	–						
KDR 120/10	120	15,5	21,0	5,0	35	70	32	M10	–	√	20	2	4	50 / 10	5,7 / 1,14
KDR 120/12								M12	√						5,65 / 1,13
KDR 120/14								M14	–						5,75 / 1,15
KDR 120/16								M16	√						5,6 / 1,12
KDR 120/20							38	M20							5,8 / 1,16
KDR 150/10	150	17,0	23,5	6,0	40	78	34	M10	√	√	22	2	4	50 / 10	8,3 / 1,66
KDR 150/12								M12							8,1 / 1,62
KDR 150/14								M14	–						8,2 / 1,64
KDR 150/16								M16	√						8 / 0,8
KDR 150/20							40	M20							8,2 / 1,64
KDR 185/10	185	19,0	25,5	6,0	42	82	37	M10	√	√	25	2	5	50 / 10	9,3 / 1,86
KDR 185/12								M12							
KDR 185/14								M14	–						9,4 / 1,88
KDR 185/16								M16	√						9,25 / 1,85
KDR 185/20							40	M20							9,3 / 1,86
KDR 240/10	240	21,5	29,0	6,5	42	92	42	M10	√	√	28	2	-	50 / 10	13,8 / 2,76
KDR 240/12								M12							13,7 / 2,74
KDR 240/14								M14	–						13,5 / 2,7
KDR 240/16								M16	√						13,6 / 2,72
KDR 240/20							45	M20							13,8 / 2,76
KDR 300/10	300	24,5	32,0	7,0	52	100	48	M10	√	–	32	2	-	25 / 10	8,2 / 3,28
KDR 300/12								M12	–						8,3 / 3,32
KDR 300/14								M14							8,5 / 3,4
KDR 300/16								M16	√						8,55 / 3,42
KDR 300/20								M20							8,5 / 3,4
KDR 400/12	400	27,5	38,5	10,0	70	115	55	M12	√	–	38	3	-	25 / 1	16,4 / 0,66
KDR 400/14								M14	–						
KDR 400/16								M16	√						19,9 / 0,8
KDR 400/20								M20							17 / 0,68
KDR 500/12	500	31,0	42,0	10,0	70	125	60	M12	√	–	42	3	-	25 / 1	19,8 / 0,8
KDR 500/14								M14	–						
KDR 500/16								M16							20,5 / 0,82
KDR 500/20								M20	√						20,2 / 0,81
KDR 625/12	625	34,5	44,0	10,0	81	135	63	M12	√	–	44	3	-	10 / 1	8,2 / 0,82
KDR 625/14								M14	–						
KDR 625/16								M16							
KDR 625/20								M20	√						8,1 / 0,81

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals, KDM type

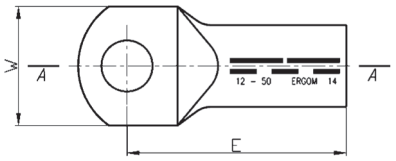
FEATURES & BENEFITS

- ring terminal Cu, as per DIN, without galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- for demanding applications
- very wide range



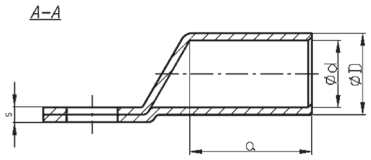
MECHANICAL DATA

Material	Cu
Covering	uncoated



CERTIFICATES & STANDARDS

Design	DIN 46235



NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	s	a	E	W	Screw hole	DIN	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDM 10/5	10	4,5	6,0	1,5	12	27	9	M5	√	6	-	1	100 / 10	0,4 / 0,04
KDM 10/6								M6						0,45 / 0,05
KDM 10/8				1,0			13	M8	–					0,4 / 0,04
KDM 16/6	16	5,5	8,5	2,5	20	36	13	M6	√	8	1	2	100 / 10	1,3 / 0,13
KDM 16/8								M8						1,4 / 0,14
KDM 16/10							17	M10						
KDM 16/12				2,0		38	19	M12	–					
KDM 25/6	25	7,0	10,0	3,0	20	38	14	M6	√	10	1	2	100 / 10	1,65 / 0,17
KDM 25/8							16	M8						
KDM 25/10							17	M10						
KDM 25/12							19	M12						
KDM 25/14				2,0		40	21	M14	–					1,9 / 0,19
KDM 25/16				1,0		45	25	M16						1,8 / 0,18
KDM 35/6	35	8,2	12,5	4,0	20	42	17	M6	–	12	1	2	100 / 10	3 / 0,3
KDM 35/8				3,5				M8	√					3,1 / 0,31
KDM 35/10							19	M10						
KDM 35/12				3,0			21	M12						
KDM 35/14						44	23	M14						
KDM 35/16				2,5		45	28	M16						3,3 / 0,33
KDM 50/8	50	10,0	14,5	4,0	28	52	20	M8	√	14	2	3	100 / 10	4,38 / 0,44
KDM 50/10							22	M10						4,7 / 0,47
KDM 50/12							24	M12						4,75 / 0,48
KDM 50/14							26	M14	–					4,7 / 0,47
KDM 50/16							28	M16	√					4,6 / 0,46
KDM 70/8	70	11,5	16,5	4,5	28	55	24	M8	√	16	2	3	100 / 10	6 / 0,6
KDM 70/10								M10						6,3 / 0,63
KDM 70/12								M12						6,4 / 0,64
KDM 70/14				4,0			26	M14	–					6,55 / 0,66
KDM 70/16							30	M16	√					6,2 / 0,62
KDM 70/20				3,0			34	M20	–					6,65 / 0,67

Type	Cross-section, rm/sm [mm²]	d	D	s	a	E	W	Screw hole	DIN	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDM 95/10	95	13,5	19,0	5,0	35	65	28	M10	√	18	2	4	50 / 10	4,8 / 0,96
KDM 95/12								M12						4,7 / 0,94
KDM 95/14							30	M14						4,8 / 0,96
KDM 95/16							32	M16						4,75 / 0,95
KDM 95/20				4,0		69	35	M20	–					
KDM 120/10	120	15,5	21,0	5,0	35	70	32	M10	–	20	2	4	50 / 10	5,7 / 1,14
KDM 120/12								M12	√					5,65 / 1,13
KDM 120/14								M14	–					5,75 / 1,15
KDM 120/16								M16	√					5,6 / 1,12
KDM 120/20							38	M20						5,8 / 1,16
KDM 150/10	150	17,0	23,5	6,0	40	78	34	M10	√	22	2	4	50 / 10	8,3 / 1,66
KDM 150/12								M12						8,1 / 1,62
KDM 150/14								M14	–					8,2 / 1,64
KDM 150/16								M16	√					8 / 1,6
KDM 150/20							40	M20						8,2 / 1,64
KDM 185/10	185	19,0	25,5	6,0	42	82	37	M10	√	25	2	5	50 / 10	9,3 / 1,86
KDM 185/12								M12						
KDM 185/14								M14	–					9,4 / 1,88
KDM 185/16								M16	√					9,25 / 1,85
KDM 185/20							40	M20						9,3 / 1,86
KDM 240/12	240	21,5	29,0	6,5	42	92	42	M12	√	28	2	-	50 / 10	13,7 / 2,74
KDM 240/14								M14	–					13,5 / 2,7
KDM 240/16								M16	√					13,6 / 2,72
KDM 240/20							45	M20						13,8 / 2,76
KDM 300/12	300	24,5	32,0	7,0	52	100	48	M12	–	32	2	-	25 / 10	8,3 / 3,32
KDM 300/14								M14						8,5 / 3,4
KDM 300/16								M16	√					8,55 / 3,42
KDM 300/20								M20						8,5 / 3,4
KDM 400/14	400	27,5	38,5	10,0	70	115	55	M14	–	38	3	-	25 / 1	16,4 / 0,66
KDM 400/16								M16	√					19,9 / 0,8
KDM 400/20								M20						17 / 0,68
KDM 500/14	500	31,0	42,0	10,0	70	125	60	M14	–	42	3	-	25 / 1	19,8 / 0,8
KDM 500/16								M16						20,5 / 0,82
KDM 500/20								M20	√					20,2 / 0,81
KDM 625/14	625	34,5	44,0	10,0	81	135	63	M14	–	44	3	-	10 / 1	8,2 / 0,82
KDM 625/16								M16						
KDM 625/20								M20	√					8,1 / 0,81

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals for 2 bolts, KDR...4X type

FEATURES & BENEFITS

- two-ring terminal Cu, crimped part as per DIN, with galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- other designs on client's request

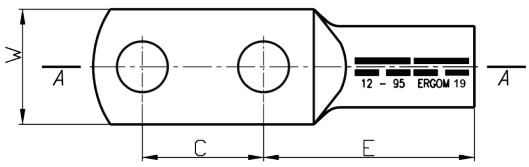


LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	Cu
Covering	tin-plated



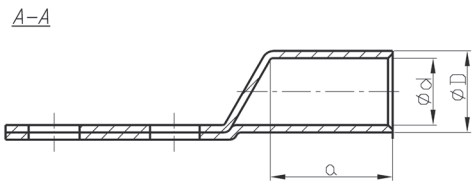
CERTIFICATES & STANDARDS

Design	DIN 46235 – concerns only the tubular part

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Other sizes on request.



Type	Cross-section, rm/ sm [mm²]	d	D	a	C	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KDR 10/2x6	10	4,5	6,0	12	30	27	9,0	M6	6	1	1	0,05
KDR 16/2x8	16	5,5	8,5	20	30	36	13,0	M8	8	1	2	0,05
KDR 25/2x10	25	7,0	10,0	20	30	38	17,0	M10	10	1	2	0,06
KDR 35/2x10	35	8,2	12,5	20	30	42	19,0	M10	12	1	2	0,06
KDR 50/2x10	50	10,0	14,5	28	30	52	20,0	M10	14	2	3	0,07
KDR 50/2x12								M12				0,08
KDR 70/2x10	70	11,5	16,5	28	40	55	24,0	M10	16	2	3	0,09
KDR 70/2x12								M12				0,08
KDR 95/2x12	95	13,5	19,0	35	40	65	28,0	M12	18	2	4	0,15
KDR 120/2x12	120	15,5	21,0	35	40	70	32,0	M12	20	2	4	0,17
KDR 150/2x12	150	17,0	23,5	40	40	78	34,0	M12	22	2	4	0,26
KDR 185/2x12	185	19,0	25,5	42	40	82	37,0	M12	25	2	5	0,29
KDR 240/2x16	240	21,5	29,0	42	40	92	42,0	M16	28	2	-	0,39
KDR 300/2x16	300	24,5	32,0	50	40	104	45,0	M16	32	2	-	0,54
KDR 400/2x16	400	27,5	38,5	70	40	115	55,0	M16	38	3	-	0,92
KDR 400/2x16-50					50							1,04
KDR 500/2x16	500	31,0	42,0	70	40	125	60,0	M16	42	3	-	1,1
KDR 500/2x16-50					50							1,29
KDR 625/2x16	625	34,5	44,0	80	40	135	60,0	M16	44	3	-	1,02
KDR 800/2x16	800	40,0	52,0	100	40	165	75,0	M16	52	3	-	1,84
KDR 1000/2x16	1000	44,0	58,0	100	40	165	85,0	M16	58	3	-	2,38

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals for 2 bolts, KDM…4X type

FEATURES & BENEFITS

- two-ring terminal Cu, crimped part as per DIN, without galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- other designs on client's request

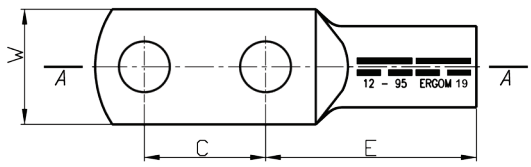


LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	Cu
Covering	uncoated



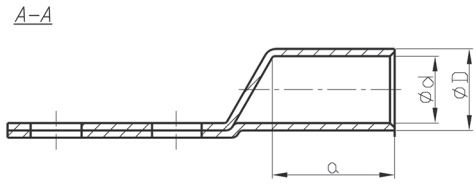
CERTIFICATES & STANDARDS

Design	DIN 46235 – concerns only the tubular part

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Other sizes on request.



Type	Cross-section, rm/ sm [mm²]	d	D	a	C	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KDM 10/2x6	10	4,5	6,0	12	30	27	9,0	M6	6	1	1	0,05
KDM 16/2x8	16	5,5	8,5	20	30	36	13,0	M8	8	1	2	0,05
KDM 25/2x10	25	7,0	10,0	20	30	38	17,0	M10	10	1	2	0,06
KDM 35/2x10	35	8,2	12,5	20	30	42	19,0	M10	12	1	2	0,06
KDM 50/2x10	50	10,0	14,5	28	30	52	20,0	M10	14	2	3	0,07
KDM 50/2x12								M12				0,08
KDM 70/2x10	70	11,5	16,5	28	40	55	24,0	M10	16	2	3	0,09
KDM 70/2x12								M12				0,08
KDM 95/2x12	95	13,5	19,0	35	40	65	28,0	M12	18	2	4	0,15
KDM 120/2x12	120	15,5	21,0	35	40	70	32,0	M12	20	2	4	0,17
KDM 150/2x12	150	17,0	23,5	40	40	78	34,0	M12	22	2	4	0,26
KDM 185/2x12	185	19,0	25,5	42	40	82	37,0	M12	25	2	5	0,29
KDM 240/2x16	240	21,5	29,0	42	40	92	42,0	M16	28	2	-	0,39
KDM 300/2x16	300	24,5	32,0	50	40	104	45,0	M16	32	2	-	0,54
KDM 400/2x16	400	22,5	38,5	70	40	115	55,0	M16	38	3	-	0,92
KDM 400/2x16-50		27,5			50							1,04
KDM 500/2x16	500	31,0	42,0	70	40	125	60,0	M16	42	3	-	1,1
KDM 500/2x16-50					50							1,29
KDM 625/2x16	625	34,5	44,0	80	40	135	60,0	M16	44	3	-	1,02
KDM 800/2x16	800	40,0	52,0	100	40	165	75,0	M16	52	3	-	1,84
KDM 1000/2x16	1000	44,0	58,0	100	40	165	85,0	M16	58	3	-	2,38

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals with four screw openings KDR...4X type

FEATURES & BENEFITS

- four-ring terminal, Cu, standard, with galvanic tin plating
- description of cable cross-section and terminal size on fin surface
- other designs on client's request

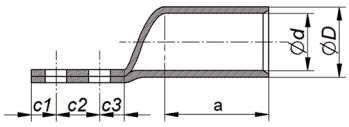


LOGISTIC DATA

Quantity in package [pcs]	1

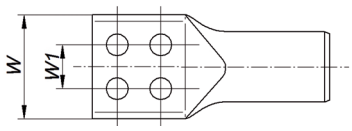
MECHANICAL DATA

Material	Cu
Covering	tin-plated



CERTIFICATES & STANDARDS

Design	DIN 46235 – concerns only the tubular part



NOTE!

- sector-shaped conductors (sm) must be "rounded";
- use tools as for KDR terminals.

Type	Cross-section, rm/sm [mm²]	d	D	a	Screw hole	Socket code no.	Weight [kg]
KDR 120/4X10	120	15,5	21,0	35	M10	20	2,39
KDR 120/4X12					M12		2,4
KDR 120/4X14					M14		2,41
KDR 120/4X16					M16		2,42
KDR 150/4X10	150	17,0	23,5	40	M10	22	2,43
KDR 150/4X12					M12		2,44
KDR 150/4X14					M14		2,45
KDR 150/4X16					M16		2,46
KDR 150/4X20					M20		2,47
KDR 185/4X10	185	19,0	25,5	42	M10	25	2,48
KDR 185/4X12					M12		2,49
KDR 185/4X14					M14		2,5
KDR 185/4X16					M16		2,51
KDR 185/4X20					M20		2,52
KDR 240/4X12	240	21,5	29	50	M12	28	2,53
KDR 240/4X14					M14		2,54
KDR 240/4X16					M16		2,55
KDR 240/4X20					M20		2,56
KDR 300/4X12	300	24,5	32	60	M12	32	2,57
KDR 300/4X14					M14		2,58
KDR 300/4X16					M16		2,59
KDR 300/4X20					M20		2,6
KDR 400/4X14	400	27,5	38,5	70	M14	38	2,61
KDR 400/4X16					M16		2,62
KDR 400/4X20					M20		2,63
KDR 500/4X14	500	31	42	80	M14	42	2,64
KDR 500/4X16					M16		2,65
KDR 500/4X20					M20		2,66
KDR 625/4X14	625	34,5	44	90	M14	44	2,67
KDR 625/4X16					M16		2,68
KDR 625/4X20					M20		2,69

Tubular angle terminals, K90D type

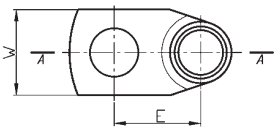
FEATURES & BENEFITS

- ring terminal Cu, crimped part as per DIN, with galvanic tin plating and 90 degrees angle terminal fixture
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- very wide range



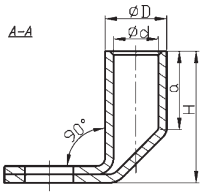
MECHANICAL DATA

Material	Cu
Covering	tin-plated



CERTIFICATES & STANDARDS

UL certificate	E475284
Design	DIN 46235 – concerns only the tubular part



NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

c UL us LISTED WIRE CONNECTOR E475284

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	H	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K90D 6/4	6	3,5	5,5	10	11	8,5	13	M4		5	-	1	100	0,33
K90D 6/5								M5						0,35
K90D 6/6					13			M6						0,37
K90D 6/8								M8						0,43
K90D 10/5	10	4,5	6,0	10	13	9	14	M5	√	6	-	1	100 / 10	0,5 / 0,05
K90D 10/6								M6						0,4 / 0,04
K90D 10/8					16	12		M8						
K90D 16/6	16	5,5	8,5	20	12	13	14	M6	√	8	1	2	100 / 10	1,3 / 0,13
K90D 16/8							25	M8						
K90D 16/10					15	17		M10						1,4
K90D 16/12					17	18		M12						1,7 / 0,17
K90D 25/6	25	7,0	10,0	20	15	14	26	M6	√	10	1	2	100 / 10	1,7 / 0,17
K90D 25/8					18	16		M8						
K90D 25/10					20	17		M10						2 / 0,2
K90D 25/12						19		M12	√					1,9 / 0,19
K90D 35/8	35	8,2	12,5	20	19	17	27	M8	√	12	1	2	100 / 10	3,8 / 0,38
K90D 35/10					21	19		M10						
K90D 35/12						21		M12						3,7 / 0,37
K90D 50/8	50	10,0	14,5	28	20	22	36	M8	√	14	2	3	100 / 10	5 / 0,5
K90D 50/10					22			M10						4,8 / 0,48
K90D 50/12						24		M12						4,4 / 0,44
K90D 50/16					25	28		M16						
K90D 70/8	70	11,5	16,5	28	21	24	37	M8	√	16	2	3	100 / 10	6,5 / 0,65
K90D 70/10					23			M10						6,7 / 0,67
K90D 70/12								M12						6,4 / 0,64
K90D 70/16					26	30		M16						5,7
K90D 95/10	95	13,5	19,0	35	25	28	45	M10	√	18	2	4	50 / 10	5 / 1
K90D 95/12					26			M12						4,85 / 0,97
K90D 95/16					30	32		M16						4,9 / 0,98
K90D 95/20					32			M20						

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	H	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K90D 120/10	120	15,5	21,0	35	27	32	47	M10	√	20	2	4	50 / 10	6,6 / 1,32
K90D 120/12					28			M12						6,4 / 1,28
K90D 120/14					32			M14						
K90D 120/16								M16						6,35 / 1,27
K90D 120/20					34	38		M20						6,25 / 1,25
K90D 150/10	150	17,0	23,5	35	29	34	48	M10	√	22	2	4	50 / 10	9,5 / 1,9
K90D 150/12					30			M12						9,3 / 1,86
K90D 150/16					34			M16						9,85 / 1,97
K90D 150/20					36	38		M20						9,25 / 1,85
K90D 185/12	185	19,0	25,5	40	35	37	55	M12	√	25	2	5	50 / 10	10,35 / 2,07
K90D 185/16								M16						10,25 / 2,05
K90D 185/20					37	40		M20						
K90D 240/12	240	21,5	29,0	40	37	42	57	M12	√	28	2	-	50 / 10	15,85 / 3,17
K90D 240/16								M16						
K90D 240/20					39	45		M20						
K90D 300/16	300	24,5	32,0	40	38	48	67	M16	–	32	2	-	25 / 10	11,25 / 4,5
K90D 300/20					40			M20						11,43 / 4,58

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular angle terminals, K45D type

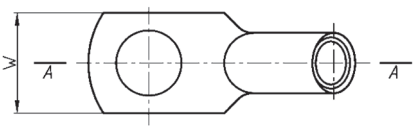
FEATURES & BENEFITS

- ring terminal Cu, crimped part as per DIN, with galvanic tin plating and 45 degrees angle terminal fixture
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- very wide range



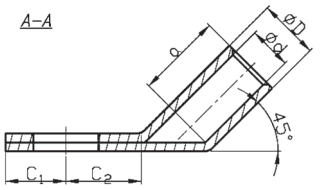
MECHANICAL DATA

Material	Cu
Covering	tin-plated
UL	√



CERTIFICATES & STANDARDS

UL certificate	E475284
Design	DIN 46235 – concerns only the tubular part



NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	a	C_1	C_2	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K45D 6/4	6	3,8	5,5	10	6,5	9	8,5	M4		5	1	1	100	0,27
K45D 6/5					7,0	10		M5						0,31
K45D 6/6					7,5			M6						0,32
K45D 6/8					9	13		M8						0,33
K45D 10/5	10	4,5	6,0	10	7,0	10	9	M5	√	6	1	1	100 / 10	0,36 / 0,04
K45D 10/6					7,5			M6						0,35 / 0,04
K45D 10/8					9,0	13	12	M8						0,39 / 0,04
K45D 16/6	16	5,5	8,5	20	7,5	10	13	M6	√	8	1	2	100 / 10	1,2 / 0,12
K45D 16/8					9,0	13		M8						1,27 / 0,13
K45D 16/10					11,0	15	17	M10						1,34 / 0,14
K45D 16/12					12,0		18	M12						1,35 / 0,14
K45D 25/6	25	7,0	10,0	20	7,5	10	14	M6	√	10	1	2	100 / 10	1,49 / 0,15
K45D 25/8					9,0	13	16	M8						1,6 / 0,16
K45D 25/10					11,0	15	17	M10						1,64 / 0,17
K45D 25/12					12,0		19	M12						1,73 / 0,18
K45D 35/8	35	8,2	12,5	20	9,0	13	17	M8	√	12	1	2	100 / 10	2,72 / 0,28
K45D 35/10					11,0	15	19	M10						2,92 / 0,3
K45D 35/12					12,0		21	M12						2,93 / 0,3
K45D 35/14					14,0	18		M14						3 / 0,3
K45D 50/8	50	10,0	14,5	28	9,0	13	20	M8	√	14	2	3	100 / 10	4,63 / 0,47
K45D 50/10					11,0	15	22	M10						4,84 / 0,49
K45D 50/12					12,0		24	M12						4,94 / 0,5
K45D 50/14					14,0	18		M14						4,96 / 0,5
K45D 50/16					16,0		28	M16						4,92 / 0,5
K45D 70/8	70	11,5	16,5	28	9,0	13	24	M8	√	16	2	3	100 / 10	12,8 / 1,28
K45D 70/10					11,0	15		M10						13,4 / 1,34
K45D 70/12					12,0			M12						13,8 / 1,38
K45D 70/14					14,0	18	30	M14						13,4 / 1,34
K45D 70/16					16,0			M16						13,8 / 1,38
K45D 95/10	95	13,5	19,0	35	12,0	17	28	M10	√	18	2	4	50 / 10	9,64 / 1,93
K45D 95/12						18		M12						9,21 / 1,85
K45D 95/14					14,0	20		M14						9,51 / 1,91
K45D 95/16					16,0	22	32	M16						9,4 / 1,88

Type	Cross-section, rm/sm [mm²]	d	D	a	C_1	C_2	W	Screw hole	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
K45D 120/10	120	15,5	21,0	35	12,0	17	32	M10	√	20	2	4	50 / 10	11 / 2,2
K45D 120/12						18		M12						11,45 / 2,29
K45D 120/14					16,0	20		M14						11,55 / 2,31
K45D 120/16						22		M16						11,76 / 2,36
K45D 120/20					20,0	24	38	M20						11,95 / 2,39
K45D 150/10	150	17,0	23,5	35	10,0	17	34	M10	√	22	2	4	50 / 10	31,8 / 6,36
K45D 150/12					12,0	18		M12						32 / 6,4
K45D 150/14					16,0	20		M14						32,6 / 6,52
K45D 150/16						22		M16						33,8 / 6,76
K45D 150/20					20,0	24	38	M20						33 / 6,6
K45D 185/10	185	19,0	25,5	40	14,0	22	37	M10	√	25	2	5	50 / 10	40,2 / 8,04
K45D 185/12								M12						39,2 / 7,84
K45D 185/14								M14						40 / 8
K45D 185/16					16,0			M16						39,3 / 7,86
K45D 185/20					20,0	24	40	M20						40 / 8
K45D 240/12	240	21,5	29,0	40	14,0	22	42	M12	√	28	2	-	50 / 10	52,8 / 10,56
K45D 240/14					16,0			M14						54 / 10,8
K45D 240/16								M16						
K45D 240/20					20,0	24	45	M20						53,6 / 10,72

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

“Butt splice” compression Connectors, KLD type

FEATURES & BENEFITS

- connector Cu, as per DIN, with galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- central stamping guarantees correct length of conductor insertion



MECHANICAL DATA

Material	Cu
Covering	tin-plated

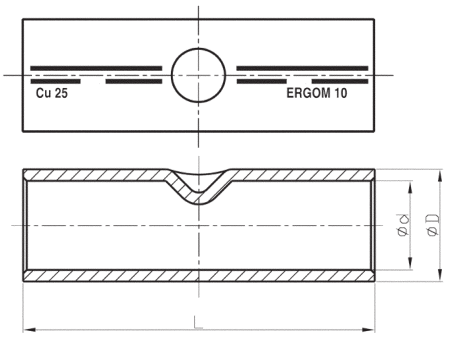
CERTIFICATES & STANDARDS

UL certificate	E475284
Design	DIN 46267 part 1

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com



Type	Cross-section, rm/ sm [mm²]	d	D	L	UL	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KLD 6	6	3,8	5,5	30		5	1 - 1	2 - 2	100	0,21
KLD 10	10	4,5	6,0	30	√	6	1 - 1	2 - 2	100 / 10	0,38 / 0,04
KLD 16	16	5,5	8,5	50	√	8	1 - 1	2 - 2	100 / 10	1,49 / 0,15
KLD 25	25	7,0	10,0	50	√	10	1 - 1	2 - 2	100 / 10	1,8 / 0,18
KLD 35	35	8,2	12,5	50	√	12	1 - 1	2 - 2	100 / 10	3,15 / 0,32
KLD 50	50	10,0	14,5	56	√	14	1 - 1	3 - 3	100 / 10	4,4 / 0,44
KLD 70	70	11,5	16,5	56	√	16	1 - 1	3 - 3	100 / 10	5,5 / 0,55
KLD 95	95	13,5	19,0	70	√	18	2 - 2	4 - 4	50 / 10	4,4 / 0,88
KLD 120	120	15,5	21,0	70	√	20	2 - 2	4 - 4	50 / 10	4,9 / 0,98
KLD 150	150	17,0	23,5	80	√	22	2 - 2	4 - 4	50 / 10	7,4 / 1,48
KLD 185	185	19,0	25,5	85	√	25	2 - 2	5 - 5	50 / 10	8,55 / 1,71
KLD 240	240	21,5	29,0	90	√	28	2 - 2	5 - 5	50 / 10	11,95 / 2,39
KLD 300	300	24,5	32,0	100	–	32	2 - 2	-	25 / 10	7,55 / 3,02
KLD 400	400	27,5	38,5	150	–	38	3 - 3	-	25 / 1	19,3 / 0,77
KLD 500	500	31,0	42,0	160	–	42	3 - 3	-	25 / 1	22,8 / 0,91
KLD 625	625	34,5	44,0	160	–	44	3 - 3	-	10 / 1	8,5 / 0,85

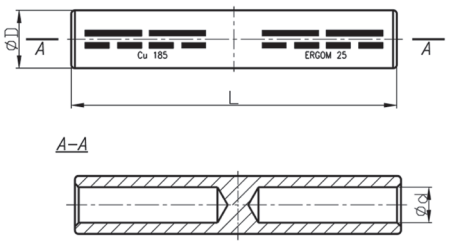
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LMP type

FEATURES & BENEFITS

- tight connector Cu, crimped part as per DIN, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- cable cross-section change impossible





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Cu
Covering	uncoated

CERTIFICATES & STANDARDS

Design	DIN 46267 part 1 - concerns only the tubular part

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.
Tin version on request.

Type	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Weight [kg]
LMP 16	16	5,5	8,5	55	8	1 -1	2 - 2	0,2
LMP 25	25	7,0	10,0	55	10	1 -1	2 - 2	0,24
LMP 35	35	8,2	12,5	55	12	1 -1	2 - 2	0,3
LMP 50	50	10,0	14,5	65	14	1 -1	3 - 3	0,5
LMP 70	70	11,5	16,5	65	16	1 -1	3 - 3	0,75
LMP 95	95	13,5	19,0	75	18	2 - 2	4 - 4	1,1
LMP 120	120	15,5	21,0	75	20	2 - 2	4 - 4	1,2
LMP 150	150	17,0	23,5	85	22	2 - 2	4 - 4	1,8
LMP 185	185	19,0	25,5	95	25	2 - 2	4 - 4	2,2
LMP 240	240	21,5	29,0	95	28	2 - 2	-	3,5

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LMP .../... type

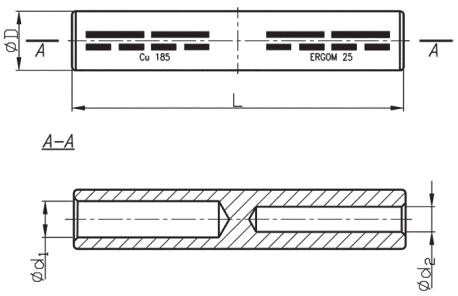
FEATURES & BENEFITS

- tight connector Cu, crimped part as per DIN, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- wide range of solutions facilitating connection of cables of various diameters



MECHANICAL DATA

Material	Cu
Covering	uncoated



NOTE!

- sector-shaped conductors (sm) must be rounded with special dies;
- larger recommended number of crimps always refers to a larger ID of the connector.

Tin version on request.

Other versions on request.

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_2 rm/sm [mm²]	D	d_1	d_2	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LMP 16/10	16	10	8,5	5,5	4,5	55	8	1 --	2-1	10	0,2
LMP 25/10	25	10	10,0	7,0	4,5	55	10	1 --	2-1	10	0,3
LMP 25/16		16			5,5			1-1	2-2		0,25
LMP 35/16	35	16	12,5	8,2	5,5	55	12	1 -1	2-2	10	0,4
LMP 35/25		25			7,0						
LMP 50/25	50	25	14,5	10,0	7,0	65	14	1-1	3-2	10	0,7
LMP 50/35		35			8,2						
LMP 70/35	70	35	16,5	11,5	8,2	65	16	1-1	3-2	10	0,9
LMP 70/50		50			10,0				3-3		0,8
LMP 95/50	95	50	19,0	13,5	10,0	75	18	2-1	4-3	10	1,2
LMP 95/70		70			11,5						1,25
LMP 120/50	120	50	21,0	15,5	10,0	75	20	2-1	4-3	10	1,3
LMP 120/70		70			11,5						1,5
LMP 120/95		95			13,5			2-2	4-4		1,35
LMP 150/70	150	70	23,5	17,0	11,5	85	22	2-1	4-3	10	2,2
LMP 150/95		95			13,5			2-2	4-4		1,8
LMP 150/120		120			15,5						1,95
LMP 185/95	185	95	25,5	19,0	13,5	95	25	2-2	4-4	10	2,8
LMP 185/120		120			15,5						2,7
LMP 185/150		150			17,0						
LMP 240/120	240	120	29,0	21,5	15,5	95	28	2-2	-	10	4,2
LMP 240/150		150			17,0						3,4
LMP 240/185		185			19,0						
LMP 300/150	300	150	32,0	24,5	17,0	105	32	2-2	-	1	0,92
LMP 300/185		185			19,0						0,9
LMP 300/240		240			21,5						0,87
LMP 400/185	400	185	38,5	26,0	19,0	160	38	3-3	-	1	1,32
LMP 400/240		240			21,5						1,29
LMP 400/300		300			24,5						1,26
LMP 500/240	500	240	42,0	29,0	21,5	170	42	3-3	-	1	1,08
LMP 500/300		300			24,5						1,06
LMP 500/400		400			26,0						1,04
LMP 625/300	625	300	44,0	34,5	24,5	170	44	3-3	-	1	1
LMP 625/400		400			26,0						0,98
LMP 625/500		500			29,0						0,95

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors, LMW type

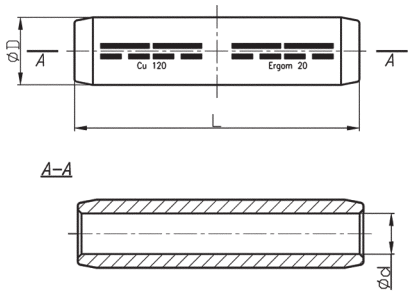
FEATURES & BENEFITS

- connector Cu, as per DIN, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- wide range of solutions facilitating connection of cables of various diameters



MECHANICAL DATA

Material	Cu
Covering	uncoated



ELECTRICAL DATA

Voltage [kV]	≥ 1

CERTIFICATES & STANDARDS

Design	DIN 46267 part 1 - concerns only the tubular part

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Tin version on request.

Type	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LMW 16	16	5,5	8,5	50	8	1 -1	2 - 2	10	0,15
LMW 25	25	7,0	10	50	10	1 -1	2 - 2	10	0,2
LMW 35	35	8,2	12,5	50	12	1 -1	2 - 2	10	3
LMW 50	50	10,0	14,5	65	14	1 -1	3 - 3	10	0,5
LMW 70	70	11,5	16,5	65	16	1 -1	3 - 3	10	0,6
LMW 95	95	13,5	19,0	90	18	2 - 2	4 - 4	10	1,1
LMW 120	120	15,5	21,0	90	20	2 - 2	4 - 4	10	1,2
LMW 150	150	17,0	23,5	106	22	2 - 2	4 - 4	10	1,9
LMW 185	185	19,0	25,5	106	25	2 - 2	4 - 4	10	2
LMW 240	240	21,5	29,0	110	28	2 - 2	4 - 4	10	2,9
LMW 300	300	24,0	32,0	116	32	2 - 2	-	1	0,34
LMW 400	400	27,5	38,5	160	38	3 - 3	-	1	0,89
LMW 500	500	31,0	42,0	175	42	3 - 3	-	1	0,98
LMW 625	625	34,5	44,0	190	44	3 - 3	-	1	0,99

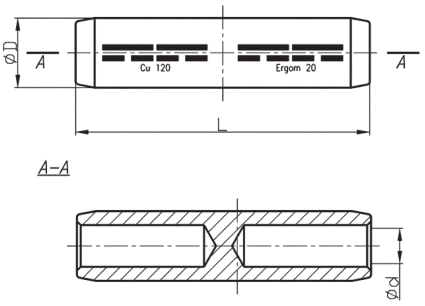
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Cu compression connectors with barrier, LMWP ... type

FEATURES & BENEFITS

- tight connector Cu, crimped part as per DIN, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- wide range of solutions facilitating connection of cables of various diameters





MECHANICAL DATA

Material	Cu
Covering	uncoated

ELECTRICAL DATA

Voltage [kV]	≥ 1

CERTIFICATES & STANDARDS

Design	DIN 46267 part 1 - concerns only the tubular part

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LMWP 16	16	5,5	8,5	65	8	1 - 1	2 - 2	10	0,2
LMWP 25	25	7,0	10,0	65	10	1 - 1	2 - 2	10	0,2
LMWP 35	35	8,2	12,5	65	12	1 - 1	2 - 2	10	0,3
LMWP 50	50	10,0	14,5	75	14	1 - 1	3 - 3	10	0,6
LMWP 70	70	11,5	16,5	75	16	1 - 1	3 - 3	10	0,8
LMWP 95	95	13,5	19,0	91	18	2 - 2	4 - 4	10	1,2
LMWP 120	120	15,5	21,0	91	20	2 - 2	4 - 4	10	1,4
LMWP 150	150	17,0	23,5	105	22	2 - 2	4 - 4	10	2,1
LMWP 185	185	19,0	25,5	115	25	2 - 2	4 - 4	10	2,5
LMWP 240	240	21,5	29,0	115	28	2 - 2	-	10	3,5
LMWP 300	300	24,5	32,0	121	32	2 - 2	-	1	0,41
LMWP 400	400	31,5	38,5	170	38	3 - 3	-	1	0,97
LMWP 500	500	29,0	42,0	185	42	3 - 3	-	1	1,2

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LMWP .../... type

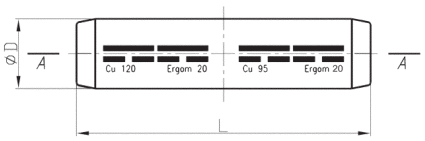
FEATURES & BENEFITS

- tight connector Cu, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- wide range of solutions facilitating connection of cables of various diameters



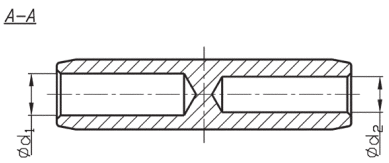
MECHANICAL DATA

Material	Cu
Covering	uncoated



ELECTRICAL DATA

Voltage [kV]	≥ 1



NOTE!

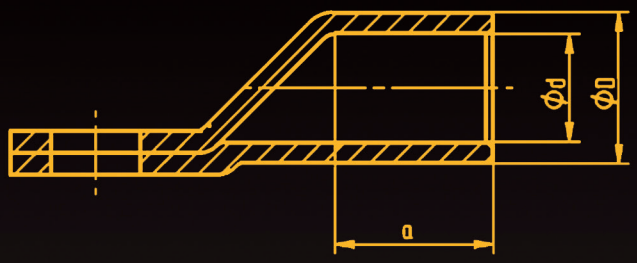
Sector-shaped conductors (sm) must be rounded with special dies.

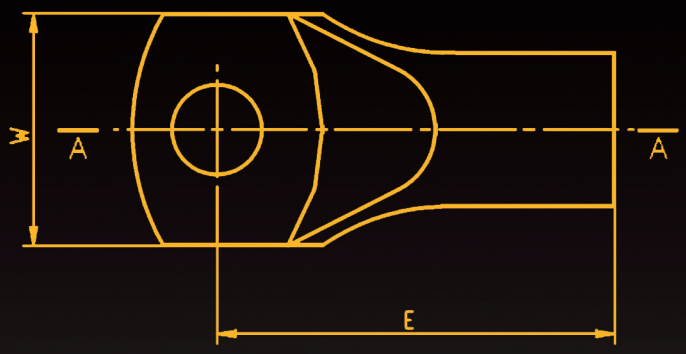
Other designs on request.

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_2 rm/sm [mm²]	D	d_1	d_2	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LMWP 25/16	25	16	10,0	7,0	5,5	65	10	1 -1	2-2	10	0,6
LMWP 35/25	35	25	12,5	8,2	7,0	65	12	1 -1	2-2	10	0,7
LMWP 50/25	50	25	14,5	10,0	7,0	75	14	1-1	3-3	10	0,7
LMWP 50/35		35			8,2						
LMWP 70/35	70	35	16,5	11,5	8,2	75	16	1-1	3-3	10	0,9
LMWP 70/50		50			10,0						0,8
LMWP 95/50	95	50	19,0	13,5	10,0	91	18	2-2	4-4	10	1,2
LMWP 95/70		70			11,5						
LMWP 120/70	120	70	21,0	15,5	11,5	95	20	2-2	4-4	10	1,5
LMWP 120/95		95			13,5						
LMWP 150/95	150	95	23,5	17,0	13,5	105	22	2-2	4-4	10	2,2
LMWP 150/120		120			15,5						2,1
LMWP 185/120	185	120	25,5	19,0	15,5	115	25	2-2	-	10	2,7
LMWP 185/150		150			17,0						2,6
LMWP 240/150	240	150	29,0	21,5	17,0	115	28	2-2	-	10	3,9
LMWP 240/185		185			19,0						3,6
LMWP 300/185	300	185	32,0	24,5	19,0	121	32	2-2	-	1	0,44
LMWP 300/240		240			21,5						0,42
LMWP 400/240	400	240	38,5	26,0	21,5	170	38	3-3	-	1	1,05
LMWP 400/300		300			24,5						1,01
LMWP 500/300	500	300	42,0	29,0	24,5	185	42	3-3	-	1	1,25
LMWP 500/400		400			26,0						1,3

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

ERGOM®









Cu tubular terminals for compressed cables

Cu tubular terminals for compressed cables

Tubular ring terminals for compressed wires, CKOR type	233
Butt splice connectors for compressed wires, CKL type	234

Tubular ring terminals for compressed wires, CKOR type

FEATURES & BENEFITS

- ring terminal Cu, with galvanic tin plating, for cables with “RMC” round multi-wire profiles, Class 2 as per EN60228 2007
- description of cable cross-section and terminal size on fin surface



MECHANICAL DATA

Material	Cu
Covering	tin-plated

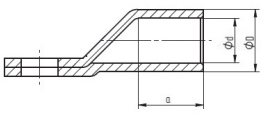
CERTIFICATES & STANDARDS

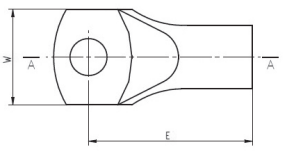
UL certificate	E475284

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com





Type	Cross-section, rmc [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Quantity in package [pcs]	Weight [kg]
CKOR 10/5	10	4,2	6,2	9	21	11,5	M5	C10	1	50	0,19
CKOR 10/6					22,5	12	M6				0,21
CKOR 10/8					24,5	14	M8				0,8
CKOR 10/10					26	15	M10				0,24
CKOR 16/6	16	5,5	7,7	10	25	13,5	M6	C16	1	50	0,33
CKOR 16/8					27	15	M8				0,36
CKOR 16/10					28	16,5	M10				0,42
CKOR 16/12					29,5	18,5	M12				0,4
CKOR 25/6	25	6,6	9	10	25,5	15	M6	C25	1	50	0,42
CKOR 25/8					27,5	16	M8				0,45
CKOR 25/10					29	18	M10				0,49
CKOR 25/12					30,5	19,5	M12				0,5
CKOR 35/8	35	7,7	10,6	11	29,5	18	M8	C35	1	50	0,68
CKOR 35/10					31	19,5	M10				0,72
CKOR 35/12					32,5	21	M12				0,75
CKOR 50/8	50	9,2	12,4	11	31	19	M8	C50	1	25	0,48
CKOR 50/10					32,5	21	M10				0,51
CKOR 50/12					34	23	M12				0,53
CKOR 70/8	70	11	14,6	21	41,5	22	M8	C70	1	25	0,81
CKOR 70/10					43	24	M10				0,86
CKOR 70/12					44,5	25	M12				0,87
CKOR 70/16					48,5	28	M16				0,94
CKOR 95/10	95	13	17	21	44,5	26	M10	C95	1	25	1,13
CKOR 95/12					46	28	M12				1,17
CKOR 95/16					50	30	M16				1,27
CKOR 120/10	120	14,5	19	22	47	28	M10	C120	1	25	1,47
CKOR 120/12					48,5	29,5	M12				1,56
CKOR 120/16					52,5	32	M16				2,27
CKOR 150/10	150	16,2	21	22	48,5	30	M10	C150	2	10	0,79
CKOR 150/12					50	32	M12				0,82
CKOR 150/16					54	34	M16				0,87
CKOR 150/20					58	36,5	M20				0,92

Type	Cross-section, rmc [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Quantity in package [pcs]	Weight [kg]
CKOR 185/10	185	18	23	24	52	33	M10	C185	2	10	0,94
CKOR 185/12					53,5		M12				0,97
CKOR 185/16					57,7	36	M16				1,04
CKOR 185/20					61,5	38,5	M20				1,09
CKOR 240/12	240	20,6	26	24	56	38	M12	C240	2	10	1,26
CKOR 240/16					60		M16				1,31
CKOR 240/20					64	41	M20				1,43

Lz/s - Number of crimping - wide

Butt splice connectors for compressed wires, CKL type

FEATURES & BENEFITS

- connector Cu, with galvanic tin plating, for cables with “RMC” round multi-wire profiles, Class 2 as per EN60228 2007
- central stamping guarantees correct length of conductor insertion



MECHANICAL DATA

Material	Cu
Covering	tin-plated

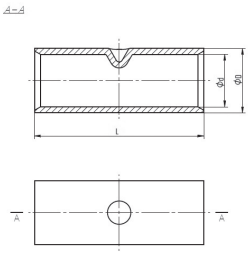
CERTIFICATES & STANDARDS

UL certificate	E475284

NOTE!

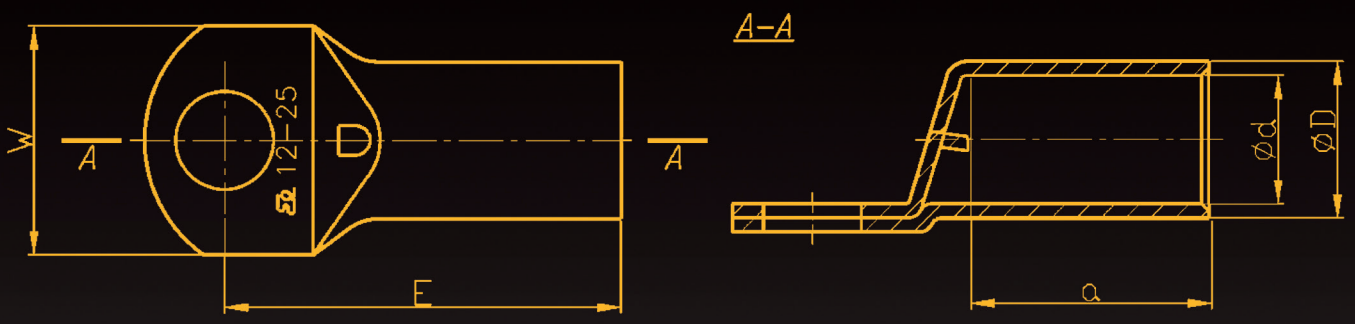
Sector-shaped conductors (sm) must be rounded with special dies.

UL certificate - visit www.ergom.com



Type	Cross-section, rmc [mm²]	d	D	L	Socket code no.	Lz/s	Quantity in package [pcs]	Weight [kg]
CKL 10	10	4,2	6,2	30	C10	1	50	0,24
CKL 16	16	5,5	7,7	30	C16	1	50	0,32
CKL 25	25	6,6	9	30	C25	1	50	0,42
CKL 35	35	7,7	10,6	32	C35	1	50	0,62
CKL 50	50	9,2	12,4	32	C50	1	25	0,41
CKL 70	70	11	14,6	48	C70	1	25	1
CKL 95	95	13	17	48	C95	1	25	1,03
CKL 120	120	14,5	19	50	C120	1	25	1,36
CKL 150	150	16,2	21	52	C150	2	10	0,7
CKL 185	185	18	23	56	C185	2	10	0,85
CKL 240	240	20,6	26	58	C240	2	10	1,05

Lz/s - Number of crimping - wide







Low-cost Cu tubular terminals

Low-cost Cu tubular terminals

Low-cost tubular terminals with inspection hole, KREo type	237
Low-cost “butt splice” connectors, LE type	238

Low-cost tubular terminals with inspection hole, KREo type

FEATURES & BENEFITS

- ring terminal Cu, low-cost version, with galvanic tin plating and inspection hole
- description of cable cross-section and terminal size on fin surface

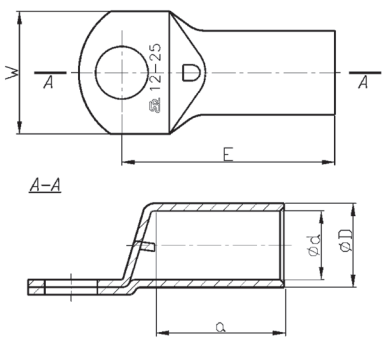


MECHANICAL DATA

Material	Cu
Covering	tin-plated

CRIMPING SHAPE

Number of crimping - wide	1



CERTIFICATES & STANDARDS

Design	economical

NOTE!

Sector-shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, rm/ sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/w	Quantity in package [pcs]	Weight [kg]
KREo 10/5	10	4,7	6,9	11,5	22,0	12,0	M5	6	1	100	0,42
KREo 10/6							M6				
KREo 10/8					23,7	13,5	M8				0,45
KREo 10/10					27,0	15,0	M10				0,53
KREo 10/12						17,0	M12				0,5
KREo 16/5	16	5,6	7,8	11,3	22,0	12,0	M5	7	2	100	0,5
KREo 16/6					22,5		M6				
KREo 16/8					23,7	13,5	M8				0,51
KREo 16/10					27,0	16,0	M10				0,6
KREo 16/12						17,0	M12				0,67
KREo 25/6	25	7,1	9,5	13,5	25,0	13,5	M6	8	2	100	0,76
KREo 25/8					26,7		M8				0,82
KREo 25/10					30,0	16,0	M10				0,89
KREo 25/12						18,0	M12				0,87
KREo 35/6	35	8,2	11,0	16,0	29,7	15,7	M6	11	2	100	1,3
KREo 35/8					30,7		M8				1,32
KREo 35/10					33,0	16,0	M10				1,5
KREo 35/12						18,0	M12				1,4
KREo 35/14					36,0	20,0	M14				1,55
KREo 50/6	50	9,5	12,5	21,5	35,7	18,0	M6	13	2	100	1,34
KREo 50/8					36,7		M8				1,94
KREo 50/10					39,0		M10				2
KREo 50/12							M12				1,9
KREo 50/14					42,0	22,0	M14				2
KREo 50/16							M16				
KREo 70/8	70	11,5	15,0	22,0	39,2	21,5	M8	15	3	100	3
KREo 70/10					41,5		M10				3,1
KREo 70/12							M12				3
KREo 70/14					44,5	22,0	M14				3,1
KREo 70/16							M16				3,2

Type	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/w	Quantity in package [pcs]	Weight [kg]
KREo 95/8	95	13,5	17,0	24,0	45,8	24,7	M8	17	3	50	2,1
KREo 95/10							M10				2
KREo 95/12							M12				
KREo 95/14					48,8		M14				2,63
KREo 95/16							M16				2,6
KREo 120/8	120	14,5	19	21,5	47	28	M8	19	3	50	2,83
KREo 120/10							M10				
KREo 120/12					48,5	29,5	M12				2,76
KREo 120/14					51	30,5	M14				2,89
KREo 120/16					52,5	32	M16				
KREo 150/10	150	16,2	21	21,5	48,5	30	M10	20	3	50	3,32
KREo 150/12					50	32	M12				3,09
KREo 150/14					52		M14				3,31
KREo 150/16					54	34	M16				3,29
KREo 185/10	185	18	23	23,5	52	33	M10	23	4	50	4,38
KREo 185/12					53,5		M12				4,19
KREo 185/14					57		M14				4,54
KREo 185/16					57,5	34	M16				4,24
KREo 240/10	240	20,6	26	23,5	52	38	M10	25	4	50	6,49
KREo 240/12					56		M12				
KREo 240/14					58		M14				6,12
KREo 240/16					60		M16				5,89

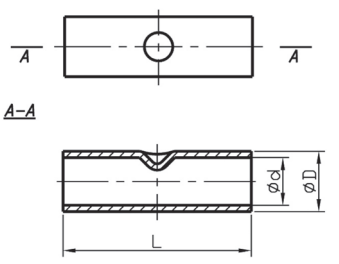
Lz/w - Number of crimping - narrow

Low-cost “butt splice” connectors, LE type

FEATURES & BENEFITS

- connector Cu, low-cost version, with galvanic tin plating, to make “butt splice” cable connections
- central stamping guarantees correct length of conductor insertion





MECHANICAL DATA

Material	Cu
Covering	tin-plated

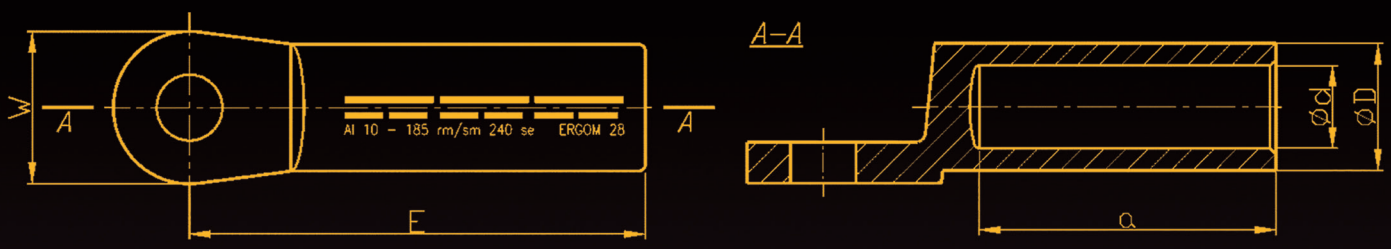
CERTIFICATES & STANDARDS

Design	economical

Type	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LE 10	10	4,7	6,9	25	6	1 - 1	1 - 1	100	0,4
LE 16	16	5,6	7,8	30	7	1 - 1	2 - 2	100	0,6
LE 25	25	7,1	9,5	30	8	1 - 1	2 - 2	100	0,8
LE 35	35	8,2	11,0	35	11	1 - 1	2 - 2	100	1,4
LE 50	50	9,5	12,5	35	13	1 - 1	2 - 2	100	1,6
LE 70	70	11,5	15,0	45	15	1 - 1	3 - 3	100	2,9
LE 95	95	13,5	17,0	47	17	1 - 1	3 - 3	50	1,8
LE 120	120	14,5	19,0	52	18	1 - 1	3 - 3	50	2,8
LE 150	150	16,2	21,0	59	20	2 - 2	4 - 4	50	3,4
LE 185	185	18,0	23,0	65	23	2 - 2	5 - 5	50	4,8
LE 240	240	20,6	26,0	75	25	2 - 2	5 - 5	50	6,02

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

ERGOM®





Al tubular terminals

Al tubular terminals - ring terminals

Aluminium terminals, longitudinally sealed, KRA type	241
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Tubular terminals, longitudinally sealed with sector shaped hole, KRAS...SE type	245
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Aluminium thin-walled terminals, 2KAm type	253

Al tubular terminals - joints

Tubular thin-walled connectors, 2ZA type	255
Compression connectors, LA … type	256
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Reducing tubular cable connectors, LAW …/… type	263

Al tubular terminals - pins

Aluminium pin terminals for plastic insulated cables acc. to VDE 0295, BAK type	264

Aluminium terminals, longitudinally sealed, KRA type

FEATURES & BENEFITS

- ring terminal Al, tight, as per DIN, without galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- to be used in most demanding connections



MECHANICAL DATA

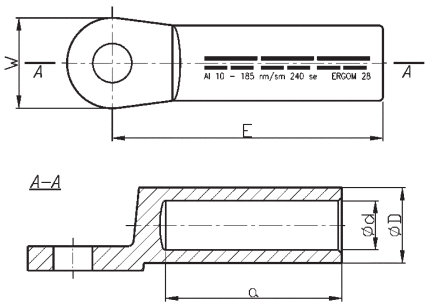
Material	Al
Covering	uncoated

CERTIFICATES & STANDARDS

Standards	EN 61238-1
Design	DIN 46329

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.



Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a min	E	W	Screw hole	DIN	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KRA 16/8	25	16	5,4	12,0	30	50	25	M8	–	12	2	4	100 / 10	1,66 / 0,17
KRA 16/10								M10						1,62 / 0,17
KRA 16/12								M12						1,54 / 0,16
KRA 25/8	35	25	6,8	12,0	30	50	25	M8	√	12	2	4	100 / 10	1,54 / 0,16
KRA 25/10								M10						1,53 / 0,16
KRA 25/12								M12						1,45 / 0,15
KRA 35/8	50	35	8,0	14,0	42	62	25	M8	√	14	3	5	100 / 10	2,3 / 0,23
KRA 35/10								M10						
KRA 35/12								M12						2,1 / 0,21
KRA 35/14								M14	–					1,82 / 0,19
KRA 50/8	70	50	9,8	16,0	42	62	25	M8	√	16	3	5	100 / 10	2,8 / 0,28
KRA 50/10								M10						
KRA 50/12								M12						
KRA 50/14								M14	–					2,4 / 0,24
KRA 70/8	95	70	11,2	18,5	52	72	25	M8	√	18	3	6	100 / 10	3,25 / 0,33
KRA 70/10								M10						3,95 / 0,4
KRA 70/12								M12						3,6 / 0,36
KRA 70/14								M14	–					3,73 / 0,38
KRA 70/16								M16						3,45 / 0,35
KRA 95/10	120	95	13,2	22,0	56	75	25	M10	√	22	3	6	50 / 10	2,87 / 0,58
KRA 95/12								M12						2,74 / 0,55
KRA 95/14								M14	–					2,65 / 0,53
KRA 95/16								M16						2,71 / 0,55
KRA 120/10	150	120	14,7	23,0	56	80	30	M10	√	22	3	6	50 / 10	3,24 / 0,65
KRA 120/12								M12						3,2 / 0,64
KRA 120/14								M14	–					
KRA 120/16								M16	√					3,3 / 0,66
KRA 150/10	185	150	16,3	25,0	60	90	30	M10	√	25	3	6	50 / 10	4,4 / 0,88
KRA 150/12								M12						
KRA 150/14								M14	–					4,2 / 0,84
KRA 150/16								M16	√					4,3 / 0,86
KRA 150/20								M20	–					4,1 / 0,82

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a min	E	W	Screw hole	DIN	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KRA 185/10	240	185	18,3	28,5	60	91	30	M10	√	28	3	6	50 / 10	5,25 / 1,05
KRA 185/12								M12						5,5 / 1,1
KRA 185/14								M14	–					5,75 / 1,15
KRA 185/16								M16	√					5,4 / 1,08
KRA 185/20								M20	–					
KRA 240/10	300	240	21,0	32,0	70	103	38	M10	–	32	3	8	50 / 10	8,2 / 1,64
KRA 240/12								M12	√					8,4 / 1,68
KRA 240/14								M14	–					7,95 / 1,59
KRA 240/16								M16	√					8 / 1,6
KRA 240/20								M20						7,75 / 1,55
KRA 300/12	-	300	23,3	34,0	70	103	38	M12	√	34	3	8	25 / 10	3,61 / 1,45
KRA 300/14								M14	–					4,1 / 1,64
KRA 300/16								M16	√					4,3 / 1,72
KRA 300/20								M20						4,2 / 1,68
KRA 400/14	-	400	26,0	38,5	74	116	38	M14	–	38	4	-	1	0,21
KRA 400/16								M16	√					
KRA 400/20								M20						
KRA 500/14	-	500	29,0	44,0	80	122	44	M14	–	44	4	-	1	0,29
KRA 500/16								M16	√					
KRA 500/20								M20						

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Aluminium terminals, longitudinally sealed, KRAC type

FEATURES & BENEFITS

- ring terminal Al, tight, as per DIN, with galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- to be used in most demanding connections, in Mediterranean conditions

MECHANICAL DATA

Material	Al
Covering	tin-plated

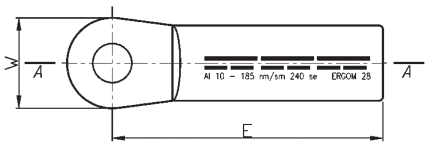
CERTIFICATES & STANDARDS

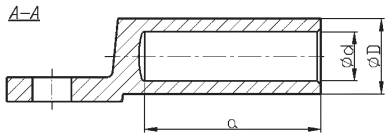
Standards	EN 61238-1
Design	DIN 46329

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.







Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a min	E	W	Screw hole	DIN	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KRAC 16/8	25	16	5,4	12,0	30	50	25	M8	–	12	2	4	100 / 10	1,66 / 0,17
KRAC 16/10								M10						1,62 / 0,17
KRAC 16/12								M12						1,54 / 0,16
KRAC 25/8	35	25	6,8	12,0	30	50	25	M8	√	12	2	4	100 / 10	1,54 / 0,16
KRAC 25/10								M10						1,53 / 0,16
KRAC 25/12								M12						1,45 / 0,15
KRAC 35/8	50	35	8,0	14,0	42	62	25	M8	√	14	3	5	100 / 10	2,3 / 0,23
KRAC 35/10								M10						
KRAC 35/12								M12						2,1 / 0,21
KRAC 35/14								M14	–					1,82 / 0,19
KRAC 50/8	70	50	9,8	16,0	42	62	25	M8	√	16	3	5	100 / 10	2,8 / 0,28
KRAC 50/10								M10						
KRAC 50/12								M12						
KRAC 50/14								M14	–					2,4 / 0,24
KRAC 70/8	95	70	11,2	18,5	52	72	25	M8	√	18	3	6	100 / 10	3,25 / 0,33
KRAC 70/10								M10						3,95 / 0,4
KRAC 70/12								M12						3,6 / 0,36
KRAC 70/14								M14	–					3,73 / 0,38
KRAC 70/16								M16						3,45 / 0,35
KRAC 95/10	120	95	13,2	22,0	56	75	25	M10	√	22	3	6	50 / 10	2,87 / 0,58
KRAC 95/12								M12						2,74 / 0,55
KRAC 95/14								M14	–					2,65 / 0,53
KRAC 95/16								M16						2,71 / 0,55
KRAC 120/10	150	120	14,7	23,0	56	80	30	M10	√	22	3	6	50 / 10	3,24 / 0,65
KRAC 120/12								M12						3,2 / 0,64
KRAC 120/14								M14	–					
KRAC 120/16								M16	√					3,3 / 0,66
KRAC 150/10	185	150	16,3	25,0	60	90	30	M10	√	25	3	6	50 / 10	4,4 / 0,88
KRAC 150/12								M12						
KRAC 150/14								M14	–					4,2 / 0,84
KRAC 150/16								M16	√					4,3 / 0,86
KRAC 150/20								M20	–					4,1 / 0,82

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a min	E	W	Screw hole	DIN	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KRAC 185/10	240	185	18,3	28,5	60	91	30	M10	√	28	3	6	50 / 10	5,25 / 1,05
KRAC 185/12								M12						5,5 / 1,1
KRAC 185/14								M14	–					5,75 / 1,15
KRAC 185/16								M16	√					5,4 / 1,08
KRAC 185/20								M20	–					
KRAC 240/10	300	240	21,0	32,0	70	103	38	M10	–	32	3	8	50 / 10	8,2 / 1,64
KRAC 240/12								M12	√					8,4 / 1,68
KRAC 240/14								M14	–					7,95 / 1,59
KRAC 240/16								M16	√					8 / 1,6
KRAC 240/20								M20	–					7,75 / 1,55
KRAC 300/12	-	300	23,3	34,0	70	103	38	M12	√	34	3	-	25 / 10	3,61 / 1,45
KRAC 300/14								M14	–					4,1 / 1,64
KRAC 300/16								M16	√					4,3 / 1,72
KRAC 300/20								M20						4,2 / 1,68

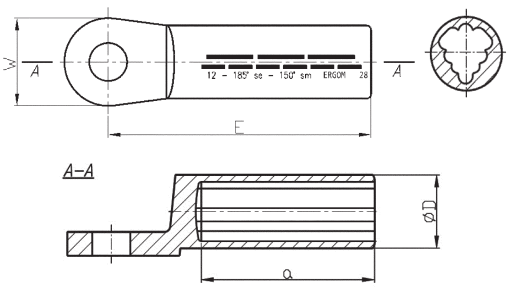
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals, longitudinally sealed with sector-shaped hole, KRAS...SE type

FEATURES & BENEFITS

- ring terminal, sealed, Al, crimped part as per DIN, without galvanic tin plating
- for sector-shaped conductors of SM Class II profile cables; does not require conductor rounding
- to be used in most demanding connections





MECHANICAL DATA

Material	Al
Covering	uncoated

CRIMPING SHAPE

Number of crimping - wide	3

NOTE!

Terminals are filled with special contact grease, packed in a separate foil bag.

No grease - on request.

Type	Cross-section, se [mm²]	Cross-section, sm [mm²]	D	a	E	W	Screw hole	Socket code no.	Lz/w	Quantity in package [pcs]	Weight [kg]
KRAS 50/8 SE	50	35	16,0	42	62	25	M8	16	5	100 / 10	2,64 / 0,27
KRAS 50/10 SE							M10				2,6 / 0,26
KRAS 50/12 SE							M12				2,4 / 0,24
KRAS 50/14 SE							M14				
KRAS 70/8 SE	70	50	18,5	52	72	25	M8	18	6	100 / 10	3,15 / 0,32
KRAS 70/10 SE							M10				3,63 / 0,37
KRAS 70/12 SE							M12				3,2 / 0,32
KRAS 70/14 SE							M14				
KRAS 95/10 SE	95	70	22,0	56	75	25	M10	22	6	50 / 10	2,6 / 0,53
KRAS 95/12 SE							M12				2,6 / 0,54
KRAS 95/14 SE							M14				2,4 / 0,48
KRAS 95/16 SE							M16				2,42 / 0,49
KRAS 120/10 SE	120	95	23,0	56	80	30	M10	22	6	50 / 10	3 / 0,6
KRAS 120/12 SE							M12				3,1 / 0,62
KRAS 120/14 SE							M14				
KRAS 120/16 SE							M16				3 / 0,6
KRAS 150/10 SE	150	120	25,0	60	90	30	M10	25	6	50 / 10	4,1 / 0,82
KRAS 150/12 SE							M12				
KRAS 150/14 SE							M14				3,52 / 0,71
KRAS 150/16 SE							M16				3,56 / 0,72
KRAS 150/20 SE							M20				3,52 / 0,71
KRAS 185/10 SE	185	150	28,5	60	91	30	M10	28	6	50 / 10	5,14 / 1,03
KRAS 185/12 SE							M12				5,3 / 1,06
KRAS 185/14 SE							M14				
KRAS 185/16 SE							M16				4,7 / 0,94
KRAS 185/20 SE							M20				
KRAS 240/10 SE	240	185	32,0	70	103	38	M10	32	8	50 / 10	7,4 / 1,48
KRAS 240/12 SE							M12				7,5 / 1,5
KRAS 240/14 SE							M14				6,6 / 1,32
KRAS 240/16 SE							M16				7,12 / 1,43
KRAS 240/20 SE							M20				6,6 / 1,32
KRAS 300/10 SE	300	240	34,0	70	103	38	M10	34	8	25 / 10	
KRAS 300/12 SE							M12				4,05 / 1,62
KRAS 300/14 SE							M14				
KRAS 300/16 SE							M16				3,8 / 1,52
KRAS 300/20 SE							M20				4,05 / 1,62

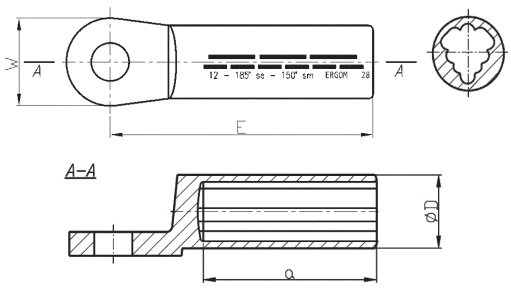
Lz/w - Number of crimping - narrow

Tubular terminals, longitudinally sealed with sector-shaped hole, KRASC...SE type

FEATURES & BENEFITS

- ring terminal, sealed, Al, crimped part as per DIN, with galvanic tin plating
- for sector-shaped conductors of SM Class II profile cables; does not require conductor rounding
- to be used in most demanding connections, in Mediterranean conditions





MECHANICAL DATA

Material	Al
Covering	tin-plated

CRIMPING SHAPE

Number of crimping - wide	3

NOTE!

Terminals are filled with special contact grease, packed in a separate foil bag.

No grease - on request.

Type	Cross-section, se [mm²]	Cross-section, sm [mm²]	D	a	E	W	Screw hole	Socket code no.	Lz/w	Quantity in package [pcs]	Weight [kg]
KRASC 50/8 SE	50	35	16,0	42	62	25	M8	16	5	100 / 10	2,64 / 0,27
KRASC 50/10 SE							M10				2,6 / 0,26
KRASC 50/12 SE							M12				2,4 / 0,24
KRASC 50/14 SE							M14				
KRASC 70/8 SE	70	50	18,5	52	72	25	M8	18	6	100 / 10	3,15 / 0,32
KRASC 70/10 SE							M10				3,63 / 0,37
KRASC 70/12 SE							M12				3,2 / 0,32
KRASC 70/14 SE							M14				
KRASC 95/10 SE	95	70	22,0	56	75	25	M10	22	6	50 / 10	2,6 / 0,53
KRASC 95/12 SE							M12				2,5 / 0,54
KRASC 95/14 SE							M14				2,4 / 0,48
KRASC 95/16 SE							M16				2,4 / 0,49
KRASC 120/10 SE	120	95	23,0	56	80	30	M10	22	6	50 / 10	3 / 0,6
KRASC 120/12 SE							M12				3,1 / 0,62
KRASC 120/14 SE							M14				
KRASC 120/16 SE							M16				3 / 0,6
KRASC 150/10 SE	150	120	25,0	60	90	30	M10	25	6	50 / 10	4,1 / 0,82
KRASC 150/12 SE							M12				
KRASC 150/14 SE							M14				3,52 / 0,71
KRASC 150/16 SE							M16				3,56 / 0,72
KRASC 150/20 SE							M20				3,52 / 0,71
KRASC 185/10 SE	185	150	28,5	60	91	30	M10	28	6	50 / 10	5,14 / 1,03
KRASC 185/12 SE							M12				5,3 / 1,06
KRASC 185/14 SE							M14				
KRASC 185/16 SE							M16				4,7 / 0,94
KRASC 185/20 SE							M20				
KRASC 240/10 SE	240	185	32,0	70	103	38	M10	32	6	50 / 10	7,4 / 1,48
KRASC 240/12 SE							M12				7,5 / 1,5
KRASC 240/14 SE							M14				6,6 / 1,32
KRASC 240/16 SE							M16				7,12 / 1,43
KRASC 240/20 SE							M20				6,6 / 1,32
KRASC 300/10 SE	300	240	34,0	70	103	38	M10	34	7	25 / 10	4,05 / 1,62
KRASC 300/12 SE							M12				
KRASC 300/14 SE							M14				
KRASC 300/16 SE							M16			10 / 25	1,52 / 3,8
KRASC 300/20 SE							M20			25 / 10	4,05 / 1,62

Lz/w - Number of crimping - narrow

Aluminium terminals, KDA type

FEATURES & BENEFITS

- ring terminal Al, crimped part as per DIN, without galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface

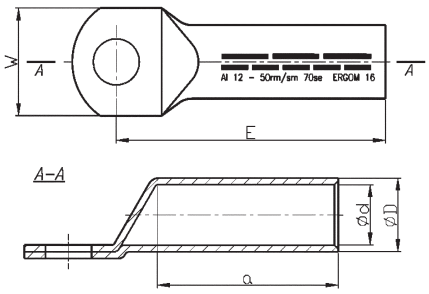


MECHANICAL DATA

Material	Al
Covering	uncoated

CERTIFICATES & STANDARDS

Standards	EN 61238-1:2004
Design	DIN 46329 – concerns only the tubular part



NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDA 16/6	25	16	5,6	12,0	30	50	18	M6	12	2	4	100 / 10	1,55 / 0,16
KDA 16/8								M8					1,5 / 0,15
KDA 16/10						53		M10					1,6 / 0,16
KDA 25/6	35	25	6,8	12,0	30	57	19	M6	12	2	4	100 / 10	1,5 / 0,15
KDA 25/8								M8					
KDA 25/10						60		M10					1,6 / 0,16
KDA 25/12							23	M12					1,55 / 0,16
KDA 35/6	50	35	8,0	14,0	42	68	22	M6	14	3	5	100 / 10	2,3 / 0,23
KDA 35/8								M8					2,2 / 0,22
KDA 35/10							24	M10					
KDA 35/12								M12					2,4 / 0,24
KDA 35/14						71	26	M14					
KDA 50/8	70	50	9,8	16,0	42	69	23	M8	16	3	5	100 / 10	2,9 / 0,29
KDA 50/10						72		M10					3 / 0,3
KDA 50/12								M12					2,9 / 0,29
KDA 50/14						75	26	M14					
KDA 70/8	95	70	11,2	18,5	52	79	28	M8	18	3	6	100 / 10	3,8 / 0,38
KDA 70/10						82		M10					4,5 / 0,45
KDA 70/12								M12					
KDA 70/14						85		M14					4,3 / 0,43
KDA 70/16								M16					
KDA 95/10	120	95	13,2	22,0	56	90	34	M10	22	3	6	50 / 10	3,6 / 0,72
KDA 95/12								M12					
KDA 95/14						93		M14					3,3 / 0,66
KDA 95/16								M16					3,7 / 0,74
KDA 120/10	150	120	14,7	23,0	56	91	33	M10	22	3	6	50 / 10	3,6 / 0,72
KDA 120/12								M12					4,4 / 0,88
KDA 120/14								M14					4,75 / 0,95
KDA 120/16						94		M16					3,63 / 0,73
KDA 150/10	185	150	16,3	25,0	60	99	37	M10	25	3	6	50 / 10	4,55 / 0,91
KDA 150/12								M12					4,5 / 0,9
KDA 150/14						102		M14					4,62 / 0,93
KDA 150/16								M16					4,5 / 0,9
KDA 150/20						107	41	M20					4,65 / 0,93

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDA 185/12	240	185	18,3	28,5	60	99	41	M12	28	3	6	50 / 10	5,8 / 1,16
KDA 185/14						102		M14					6,2 / 1,24
KDA 185/16								M16					6,3 / 1,26
KDA 185/20						107	43	M20					6,4 / 1,28
KDA 240/12	300	240	21,0	32,0	70	111	45	M12	32	3	8	50 / 10	8 / 1,6
KDA 240/14						114	47	M14					8,2 / 1,64
KDA 240/16								M16					7,3 / 1,46
KDA 240/20						119		M20					8,6 / 1,72
KDA 300/10	-	300	23,3	34,0	70		50		34	3	8	25 / 10	4,5 / 1,8
KDA 300/12						117		M12					
KDA 300/14						120		M14					
KDA 300/16								M16					
KDA 300/20						125		M20					4,2 / 1,68
KDA 400/14	-	400	26,0	38,5	100	165	60	M14	38	4	-	1	0,31
KDA 400/16								M16					
KDA 400/20								M20					0,28
KDA 500/14	-	500	29,0	44,0	120	185	63	M14	44	4	-	1	0,51
KDA 500/16								M16					
KDA 500/20								M20					

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Aluminium terminals, KDAC type

FEATURES & BENEFITS

- ring terminal Al, crimped part as per DIN, with galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- to be used in in Mediterranean conditions

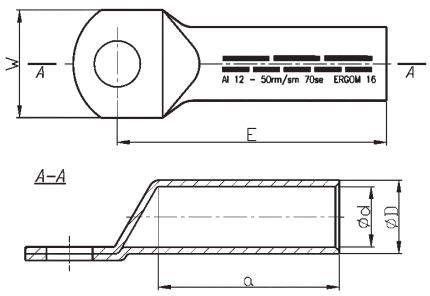


MECHANICAL DATA

Material	Al
Covering	tin-plated

CERTIFICATES & STANDARDS

Standards	EN 61238-1:2004
Design	DIN 46329 – concerns only the tubular part



NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDAC 16/6	25	16	5,6	12,0	30	50	18	M6	12	2	4	100 / 10	1,55 / 0,16
KDAC 16/8								M8					1,5 / 0,15
KDAC 16/10						53		M10					1,6 / 0,16
KDAC 25/6	35	25	6,8	12,0	30	57	19	M6	12	2	4	100 / 10	1,5 / 0,15
KDAC 25/8								M8					
KDAC 25/10						60		M10					1,6 / 0,16
KDAC 25/12							23	M12					1,55 / 0,16
KDAC 35/6	50	35	8,0	14,0	42	68	22	M6	14	3	5	100 / 10	2,3 / 0,23
KDAC 35/8								M8					2,2 / 0,22
KDAC 35/10							24	M10					
KDAC 35/12								M12					2,4 / 0,24
KDAC 35/14						71	26	M14					
KDAC 50/8	70	50	9,8	16,0	42	69	23	M8	16	3	5	100 / 10	2,9 / 0,29
KDAC 50/10						72		M10					3 / 0,3
KDAC 50/12								M12					2,9 / 0,29
KDAC 50/14						75	26	M14					
KDAC 70/8	95	70	11,2	18,5	52	79	28	M8	18	3	6	100 / 10	3,8 / 0,38
KDAC 70/10						82		M10					4,5 / 0,45
KDAC 70/12								M12					
KDAC 70/14						85		M14					4,3 / 0,43
KDAC 70/16								M16					
KDAC 95/10	120	95	13,2	22,0	56	90	34	M10	22	3	6	50 / 10	3,6 / 0,72
KDAC 95/12								M12					
KDAC 95/14						93		M14					3,3 / 0,66
KDAC 95/16								M16					3,7 / 0,74
KDAC 120/10	150	120	14,7	23,0	56	91	33	M10	22	3	6	50 / 10	3,6 / 0,72
KDAC 120/12								M12					4,4 / 0,88
KDAC 120/14								M14					4,75 / 0,95
KDAC 120/16						94		M16					3,63 / 0,73
KDAC 150/10	185	150	16,3	25,0	60	99	37	M10	25	3	6	50 / 10	4,55 / 0,91
KDAC 150/12								M12					4,5 / 0,9
KDAC 150/14						102		M14					4,62 / 0,93
KDAC 150/16								M16					4,5 / 0,9
KDAC 150/20						107	41	M20					4,65 / 0,93

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
KDAC 185/12	240	185	18,3	28,5	60	99	41	M12	28	3	6	50 / 10	5,8 / 1,16
KDAC 185/14						102		M14					6,2 / 1,24
KDAC 185/16								M16					6,3 / 1,26
KDAC 185/20						107	43	M20					6,4 / 1,28
KDAC 240/12	300	240	21,0	32,0	70	111	45	M12	32	3	8	50 / 10	8 / 1,6
KDAC 240/14						114	47	M14					8,2 / 1,64
KDAC 240/16								M16					7,3 / 1,46
KDAC 240/20						119		M20					8,6 / 1,72
KDAC 300/12	-	300	23,3	34,0	70	117	50	M12	34	3	8	25 / 10	4,5 / 1,8
KDAC 300/14						120		M14					
KDAC 300/16								M16					
KDAC 300/20						125		M20					4,2 / 1,68
KDAC 400/14	-	400	26,0	38,5	100	165	60	M14	38	4	-	25 / 1	7,8 / 0,32
KDAC 400/16								M16				1	0,32
KDAC 400/20								M20					0,29
KDAC 500/14	-	500	29,0	44,0	120	185	63	M14	44	4	-	1	0,51
KDAC 500/16								M16					
KDAC 500/20								M20					

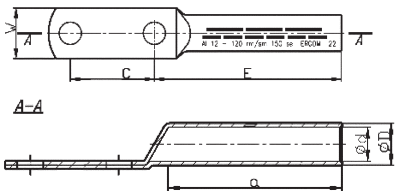
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals for 2 bolts KDA ... 2X type

FEATURES & BENEFITS

- two-ring terminal Al, crimped part as per DIN, without galvanic tin plating
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- other designs on client's request





LOGISTIC DATA

Quantity in package [pcs]	1

MECHANICAL DATA

Material	Al
Covering	uncoated

DIMENSIONS

C	40

CERTIFICATES & STANDARDS

Design	DIN 46329 – concerns only the tubular part

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KDA 120/2x12	150	120	14,7	23,0	56	94	33	M12	22	3	6	0,1
KDA 120/2x16								M16				
KDA 150/2x12	185	150	16,3	25,0	60	99	37	M12	25	3	6	0,15
KDA 150/2x16						102		M16				
KDA 185/2x12	240	185	18,3	28,5	60	111	41	M12	28	3	6	0,2
KDA 185/2x16						114		M16				
KDA 240/2x12	300	240	21,0	32,0	70	111	45	M12	32	3	8	0,25
KDA 240/2x16						114	47	M16				0,23
KDA 300/2x12	-	300	23,3	34,0	70	117	50	M12	34	3	8	0,28
KDA 300/2x16						120		M16				0,29
KDA 400/2x12	-	400	26,0	38,5	100	165	60	M12	38	4	-	0,63
KDA 400/2x16								M16				0,6
KDA 500/2x12	-	500	29,0	44,0	120	185	63	M12	44	5	-	0,85
KDA 500/2*16								M16				0,8

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular terminals with four screw openings KDA…4X type

FEATURES & BENEFITS

- four-ring terminal, Al, crimped part as per DIN
- description of cable cross-section and terminal size on fin surface
- other designs on client's request

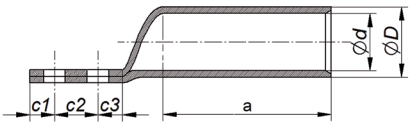


LOGISTIC DATA

Quantity in package [pcs]	1

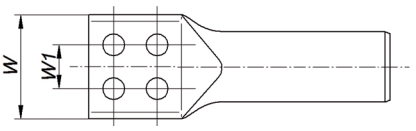
MECHANICAL DATA

Material	Al
Covering	uncoated



CERTIFICATES & STANDARDS

Design	DIN 46329 – concerns only the tubular part



NOTE!

- terminals filled with special contact grease;
- sector-shaped conductors must be "rounded";
- use tools as for KDA terminals.

Without lubricant - on request.

Type	Cross-section, rm/sm [mm²]	d	D	a	Screw hole	Socket code no.	Weight [kg]
KDA 240/4X12	240	21,0	32,0	70	M12	32	0,32
KDA 240/4X14					M14		0,28
KDA 240/4X16					M16		0,26
KDA 240/4X20					M20		0,23
KDA 300/4X12	300	23,3	34,0	85	M12	34	0,37
KDA 300/4X14					M14		0,35
KDA 300/4X16					M16		0,33
KDA 300/4X20					M20		0,3
KDA 400/4X14	400	26	38,5	100	M14	38	0,72
KDA 400/4X16					M16		0,68
KDA 400/4X20					M20		0,66
KDA 500/4X14	500	29	44	120	M14	44	0,92
KDA 500/4X16					M16		0,9
KDA 500/4X20					M20		0,89

Aluminium thin-walled terminals, 2KAm type

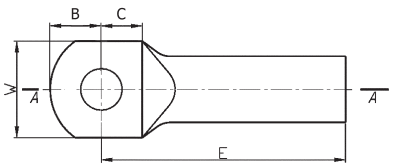
FEATURES & BENEFITS

- thin-walled ring terminal Al
- design not recommended for new installations
- low-cost design, only for much less demanding applications
- does not contain grease ensuring gas-tight connection in crimped part - grease available separately



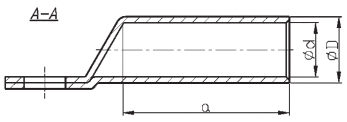
MECHANICAL DATA

Material	Al
Covering	uncoated



CERTIFICATES & STANDARDS

Design	thin-walled



NOTE!

Sector shaped conductors (sm) must be rounded with special dies.

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	B	C	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
2KAM 16/6	25	16	5,2	9,2	24	11	10	46	15,5	M6	10	2	4	100 / 10	0,66 / 0,07
2KAM 16/8										M8					0,65 / 0,07
2KAM 16/10						14	13	49		M10					0,71 / 0,08
2KAM 25/6	35	25	6,4	10,4	26	11	10	49	17,5	M6	11	2	4	100 / 10	0,82 / 0,09
2KAM 25/8										M8					0,78 / 0,08
2KAM 25/10						14	13	52		M10					0,82 / 0,09
2KAM 25/12									21,5	M12					0,81 / 0,09
2KAM 35/6	50	35	7,6	12,0	27	11	10	52	18,5	M6	12	2	4	100 / 10	1,1 / 0,11
2KAM 35/8										M8					
2KAM 35/10						14	13	56		M10					1,15 / 0,12
2KAM 35/12									23,5	M12					1,17 / 0,12
2KAM 35/14						17	16	59		M14					1,24 / 0,13
2KAM 35/16								56		M16					1,23 / 0,13
2KAM 50/8	70	50	9,2	14,0	34	11	10	63	21,5	M8	14	2	5	100 / 10	1,65 / 0,17
2KAM 50/10						14	13	65		M10					1,7 / 0,17
2KAM 50/12										M12					1,5 / 0,15
2KAM 50/14						17	16	68	25,5	M14					1,55 / 0,16
2KAM 50/16										M16					1,5 / 0,15
2KAM 70/8	95	70	10,6	15,5	36	11	10	67	23,5	M8	16	3	5	100 / 10	2,15 / 0,22
2KAM 70/10						14	13	69		M10					
2KAM 70/12										M12					2,1 / 0,21
2KAM 70/14						17	16	72	25,5	M14					2 / 0,2
2KAM 70/16										M16					2,1 / 0,21
2KAM 95/8	120	95	12,8	18,0	47	14	13	83	25,5	M8	18	3	5	50 / 10	1,6 / 0,32
2KAM 95/10										M10			6		
2KAM 95/12										M12					
2KAM 95/14						17	16	86		M14					1,54 / 0,31
2KAM 95/16										M16					1,5 / 0,3
2KAM 120/8	150	120	14,3	19,6	50	17	16	88	28,5	M8	19	3	6	50 / 10	2 / 0,4
2KAM 120/10										M10					
2KAM 120/12										M12					1,9 / 0,38
2KAM 120/14										M14					2,12 / 0,43
2KAM 120/16										M16					2,1 / 0,42
2KAM 120/20						20	21	99	32,0	M20					2,2 / 0,44

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	a	B	C	E	W	Screw hole	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
2KAM 150/10	185	150	16,2	22,0	55	17	16	99	32,0	M10	21	3	6	50 / 10	2,6 / 0,52
2KAM 150/12										M12					
2KAM 150/14										M14					2,9 / 0,58
2KAM 150/16										M16					2,7 / 0,54
2KAM 150/20						20	21	106	34,5	M20					2,95 / 0,59
2KAM 185/10	240	185	17,8	24,0	60	20	21	109	34,5	M10	23	3	6	50 / 10	3,3 / 0,66
2KAM 185/12										M12					3,75 / 0,67
2KAM 185/14										M14					3,55 / 0,71
2KAM 185/16										M16					3,45 / 0,69
2KAM 185/20										M20					3,25 / 0,65
2KAM 240/10	300	240	20,2	28,2	64	20	21	115	40,0	M10	28	3	8	50 / 10	5,3 / 1,06
2KAM 240/12										M12					5 / 1
2KAM 240/14										M14					5,2 / 1,04
2KAM 240/16										M16					
2KAM 240/20										M20					

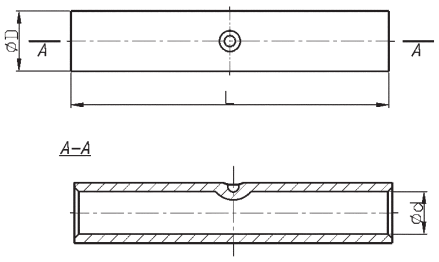
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Tubular thin-walled connectors, 2ZA type

FEATURES & BENEFITS

- thin-walled connector Al, to make “butt splice” cable connections
- design not recommended for new installations
- low-cost design, only for much less demanding applications
- does not contain grease ensuring gas-tight connection in crimped part - grease available separately





MECHANICAL DATA

Material	Al
Covering	uncoated

CERTIFICATES & STANDARDS

Design	thin-walled

NOTE!

- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, re/ se [mm²]	Cross-section, rm/ sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
2ZA 16	25	16	5,2	9,2	47	10	1-1	3-3	100 / 10	0,6 / 0,06
2ZA 25	35	25	6,4	10,4	57	11	2-2	4-4	100 / 10	0,8 / 0,08
2ZA 35	50	35	7,6	12,0	63	12	2-2	4-4	100 / 10	1,4 / 0,14
2ZA 50	70	50	9,2	14,0	76	14	2-2	4-4	100 / 10	1,8 / 0,18
2ZA 70	95	70	10,6	15,6	84	16	2-2	5-5	100 / 10	2,3 / 0,23
2ZA 95	120	95	12,8	18,0	96	18	2-2	5-5	50 / 10	1,6 / 0,32
2ZA 120	150	120	14,3	19,7	110	19	2-2	6-6	50 / 10	2,1 / 0,42
2ZA 150	185	150	16,2	22,0	118	21	2-2	6-6	50 / 10	2,9 / 0,58
2ZA 185	240	185	17,8	24,0	126	23	2-2	6-6	50 / 10	3,5 / 0,7
2ZA 240	300	240	20,2	28,2	136	28	2-2	6-6	50 / 10	5,6 / 1,12

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors, LA … type

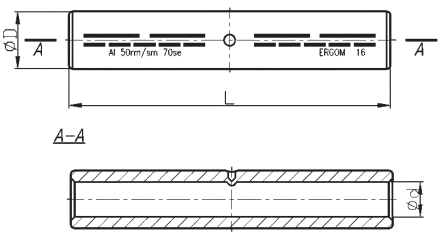
FEATURES & BENEFITS

- connector Al, crimped part as per DIN, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- central stamping guarantees correct length of conductor insertion
- cable cross-section change impossible



MECHANICAL DATA

Material	Al
Covering	uncoated



CERTIFICATES & STANDARDS

Standards	EN 61238-1
Design	DIN 46267/2 - concerns only the tubular part

NOTE!

- LA terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

LA...BS - without contact grease;

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	L	Grease	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LA 10	16	10	5,0	10,0	55	contact grease	10	1-1	3-3	100 / 10	1,06 / 0,11
LA 16	25	16	5,6	12,0	55	contact grease	12	1-1	3-3	100 / 10	1,5 / 0,15
LA 25	35	25	6,8	12,0	70	contact grease	12	2-2	4-4	100 / 10	1,63 / 0,17
LA 35	50	35	8,0	14,0	85	contact grease	14	2-2	5-5	100 / 10	2,63 / 0,27
LA 50	70	50	9,8	16,0	85	contact grease	16	2-2	5-5	100 / 10	3,35 / 0,34
LA 70	95	70	11,2	18,5	105	contact grease	18	3-3	6-6	100 / 10	5,2 / 0,52
LA 95	120	95	13,2	22,0	105	contact grease	22	3-3	6-6	50 / 10	3,7 / 0,74
LA 120	150	120	14,7	23,0	105	contact grease	22	3-3	6-6	50 / 10	3,9 / 0,78
LA 150	185	150	16,3	25,0	125	contact grease	25	3-3	7-7	50 / 10	4,75 / 0,95
LA 185	240	185	18,3	28,5	125	contact grease	28	3-3	7-7	50 / 10	7,9 / 1,58
LA 240	300	240	21,0	32,0	145	contact grease	32	3-3	8-8	50 / 10	9,3 / 1,86
LA 300	-	300	23,3	34,0	145	contact grease	34	3-3	-	25 / 10	5 / 2
LA 400	-	400	26,0	38,5	210	contact grease	38	4-4	-	25 / 1	9,3 / 0,38
LA 500	-	500	29,0	44,0	210	contact grease	44	4-4	-	25 / 1	12,5 / 0,5
LA 10 BS	16	10	5,0	10,0	55	without contact grease	10	1-1	3-3	100 / 10	1,06 / 0,11
LA 16 BS	25	16	5,6	12,0	55	without contact grease	12	1-1	3-3	100 / 10	1,5 / 0,15
LA 25 BS	35	25	6,8	12,0	70	without contact grease	12	2-2	4-4	100 / 10	1,63 / 0,17
LA 35 BS	50	35	8,0	14,0	85	without contact grease	14	2-2	5-5	100 / 10	2,63 / 0,27
LA 50 BS	70	50	9,8	16,0	85	without contact grease	16	2-2	5-5	100 / 10	3,35 / 0,34
LA 70 BS	95	70	11,2	18,5	105	without contact grease	18	3-3	6-6	100 / 10	5,2 / 0,52
LA 95 BS	120	95	13,2	22,0	105	without contact grease	22	3-3	6-6	50 / 10	3,7 / 0,74
LA 120 BS	150	120	14,7	23,0	105	without contact grease	22	3-3	6-6	50 / 10	3,9 / 0,78
LA 150 BS	185	150	16,3	25,0	125	without contact grease	25	3-3	7-7	50 / 10	4,75 / 0,95
LA 185 BS	240	185	18,3	28,5	125	without contact grease	28	3-3	7-7	50 / 10	7,9 / 1,58
LA 240 BS	300	240	21,0	32,0	145	without contact grease	32	3-3	8-8	50 / 10	9,3 / 1,86
LA 300 BS	-	300	23,3	34,0	145	without contact grease	34	3-3	-	25 / 10	5 / 2
LA 400 BS	-	400	26,0	38,5	210	without contact grease	38	4-4	-	25 / 1	9,3 / 0,37
LA 500 BS	-	500	29,0	44,0	210	without contact grease	44	4-4	-	25 / 1	12,5 / 0,5

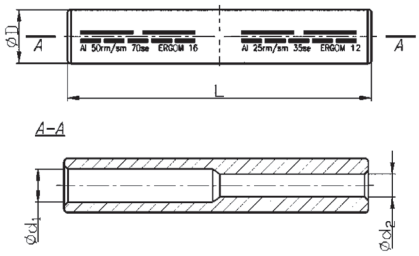
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors, LA .../... type

FEATURES & BENEFITS

- connector Al, crimped part as per DIN, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- wide range of solutions facilitating connection of cables of various diameters





MECHANICAL DATA

Material	Al
Covering	uncoated

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Tin version on request

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_1 re/se [mm²]	Cross-section, d_2 rm/sm [mm²]	Cross-section, d_2 re/se [mm²]	D	L	d_1	d_2	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LA 25/16	25	35	16	25	12,0	75	6,8	5,4	12	2-2	4-4	10	0,19
LA 35/16	35	50	16	25	14,0	90	8,0	5,4	14	2-2	5-5	10	0,31
LA 35/25			25	35				6,8					0,3
LA 50/25	50	70	25	35	16,0	90	9,8	6,8	16	2-2	5-5	10	0,38
LA 50/35			35	50				8,0					0,37
LA 70/25	70	95	25	35	18,5	110	11,2	6,8	18	3-3	6-6	10	0,68
LA 70/35			35	50				8,0					0,66
LA 70/50			50	70				9,8					0,62
LA 95/35	95	120	35	50	22,0	110	13,2	8,0	22	3-3	6-6	10	0,66
LA 95/50			50	70				9,8					0,85
LA 95/70			70	95				11,2					1,1
LA 120/25	120	150	25	35	23,0	110	14,7	6,8	22	3-3	6-6	10	1
LA 120/35			35	50				8,0					0,98
LA 120/50			50	70				9,8					1,2
LA 120/70			70	95				11,2					0,94
LA 120/95			95	120				13,2					0,88
LA 150/35	150	185	35	50	25,0	130	16,3	8,0	25	3-3	6-6	10	1,32
LA 150/50			50	70				9,8					1,26
LA 150/70			70	95				11,2					1,41
LA 150/95			95	120				13,2					1,36
LA 150/120			120	150				14,7					1,2
LA 185/120	185	240	120	150	28,5	130	18,3	14,7	28	3-3	7-7	10	1,8
LA 185/150			150	185				16,3					1,64
LA 240/120	240	300	180	150	32,0	150	21,0	14,7	32	3-3	8-8	10	2,51
LA 240/150			150	185				16,3					2,48
LA 240/185			185	240				18,3					2,34
LA 300/185	300	-	185	240	34,0	150	23,3	18,3	34	3-3	8-8	1	0,26
LA 300/240			240	300				21,0					0,25

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LAP … type

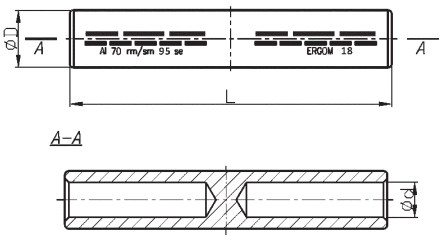
FEATURES & BENEFITS

- tight connector Al, crimped part as per DIN, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- cable cross-section change impossible



MECHANICAL DATA

Material	Al
Covering	uncoated



CERTIFICATES & STANDARDS

Standards	EN 61238-1
Design	DIN 46267/2 - concerns only the tubular part

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Tin version on request

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LAP 16	25	16	5,6	12,0	75	12	2-2	4-4	10	0,2
LAP 25	35	25	6,8	12,0	75	12	2-2	4-4	10	0,02
LAP 35	50	35	8,0	14,0	90	14	2-2	5-5	10	0,03
LAP 50	70	50	9,8	16,0	90	16	2-2	5-5	10	0,04
LAP 70	95	70	11,2	18,5	110	18	3-3	6-6	10	0,06
LAP 95	120	95	13,2	22,0	120	22	3-3	6-6	10	0,09
LAP 120	150	120	14,7	23,0	120	22	3-3	6-6	10	0,09
LAP 150	185	150	16,3	25,0	130	25	3-3	6-6	10	0,11
LAP 185	240	185	18,3	28,5	130	28	3-3	6-6	10	0,16
LAP 240	300	240	21,0	32,0	150	32	3-3	8-8	10	2,1
LAP 300	-	300	23,3	34,0	155	34	4-4	8-8	1	0,27

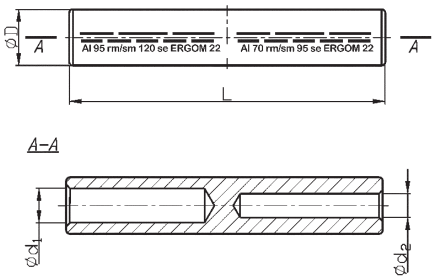
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LAP .../... type

FEATURES & BENEFITS

- tight connector Al, crimped part as per DIN, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- cable cross-section change impossible





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al
Covering	uncoated

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.
- larger recommended number of crimps always refers to a larger ID of the connector.

Tin version on request.

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_1 re/se [mm²]	Cross-section, d_2 rm/sm [mm²]	Cross-section, d_2 re/se [mm²]	D	L	d_1	d_2	Socket code no.	Lz/s	Lz/w	Weight [kg]
LAP 16/10	16	25	10	16	12,0	75	5,6	4,5	12	2-1	4-2	0,2
LAP 25/10	25	16					6,8					
LAP 25/16			16	25				5,6		2-2	4-4	
LAP 35/16	35	50	16	25	14,0	90	8,0	5,6	14	2-2	5-4	0,3
LAP 35/25			25	35				6,8				
LAP 50/25	50	70	25	35	16,0	90	9,8	6,8	16	2-2	5-4	0,4
LAP 50/35			35	50				8,0				
LAP 70/25	70	95	25	35	18,5	110	11,2	6,8	18	3-2	6-4	0,6
LAP 70/35			35	50				8,0			6-5	0,65
LAP 70/50			50	70				9,8				0,6
LAP 95/35	95	120	35	50	22,0	120	13,2	8,0	22	3-2	6-5	0,9
LAP 95/50			50	70				9,8				
LAP 95/70			70	95				11,2		3-3	6-6	0,8
LAP 120/35	120	150	35	50	23,0	120	14,7	8,0	22	3-2	6-5	0,95
LAP 120/50			50	70				9,8				1
LAP 120/70			70	95				11,2		3-3	6-6	0,9
LAP 120/95			95	120				13,2				
LAP 150/35	150	185	35	50	25,0	130	16,3	8,0	25	3-2	6-5	1,4
LAP 150/50			50	70				9,8				1,3
LAP 150/70			70	95				11,2			6-6	0,13
LAP 150/95			95	120				13,2		3-3		1,2
LAP 150/120			120	150				14,7				
LAP 185/50	185	240	50	70	28,5	130	18,3	9,8	28	3-3	6-5	1,8
LAP 185/70			70	95				11,2			6-6	1,7
LAP 185/95			95	120				13,2				
LAP 185/120			120	150				14,7				1,5
LAP 185/150			150	185				16,3			6-3	1,55
LAP 240/95	240	300	95	120	32,0	150	21,0	13,2	32	3-3	8-6	2,2
LAP 240/120			120	150				14,7				2,15
LAP 240/150			150	185				16,3				2,1
LAP 240/185			185	240				18,3				1,95

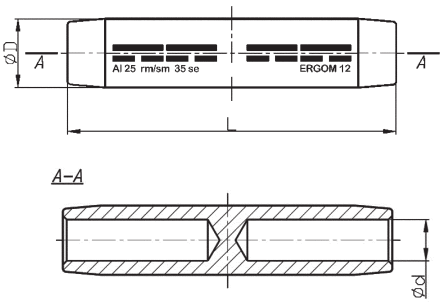
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LAWP … type

FEATURES & BENEFITS

- tight connector Al, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- cable cross-section change impossible





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al
Covering	uncoated

ELECTRICAL DATA

Voltage [kV]	1 ÷ 36

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Tin version on request

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Weight [kg]
LAWP 16	25	16	5,6	12	85	12	2-2	4-4	0,2
LAWP 25	35	25	6,8	12,0	85	12	2-2	4-4	0,2
LAWP 35	50	35	8,0	14,0	100	14	2-2	5-5	0,3
LAWP 50	70	50	9,8	16,0	100	16	2-2	5-5	0,35
LAWP 70	95	70	11,2	18,5	120	18	3-3	6-6	0,56
LAWP 95	120	95	13,2	22,0	136	22	3-3	6-6	0,9
LAWP 120	150	120	14,7	23,0	136	22	3-3	6-6	0,8
LAWP 150	185	150	16,3	25,0	150	25	3-3	6-6	1,1
LAWP 185	240	185	18,3	28,5	150	28	3-3	6-6	1,5
LAWP 240	300	240	21,0	32,0	170	32	3-3	8-8	2,1

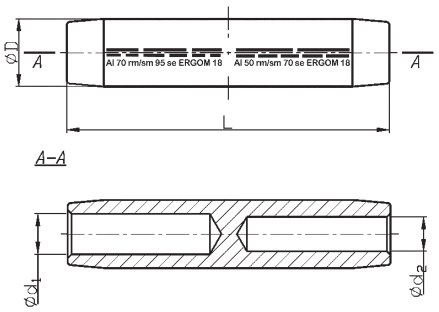
Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors with barrier, LAWP …/… type

FEATURES & BENEFITS

- tight connector Al, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- wide range of solutions facilitating connection of cables of various diameters





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al
Covering	uncoated

ELECTRICAL DATA

Voltage [kV]	1 ÷ 36

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.
- larger recommended number of crimps always refers to a larger ID of the connector.

Tin version on request.

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_1 re/se [mm²]	Cross-section, d_2 rm/sm [mm²]	Cross-section, d_2 re/se [mm²]	D	L	d_1	d_2	Socket code no.	Lz/s	Lz/w	Weight [kg]
LAWP 35/25	35	50	25	35	14,0	100	8,0	6,8	14	2-2	5-4	0,3
LAWP 50/25	50	70	25	35	16,0	100	9,8	6,8	16	2-2	5-4	0,4
LAWP 50/35			35	50				8,0			5-5	
LAWP 70/35	70	95	35	50	18,5	120	11,2	8,0	18	3-2	6-5	0,6
LAWP 70/50			50	70				9,8				0,65
LAWP 95/50	95	120	50	70	22,0	136	13,2	9,8	22	3-2	6-5	0,9
LAWP 95/70			70	95				11,2		3-3		0,85
LAWP 120/25	120	150	25	35	23,0	136	14,7	6,8	22	3-2	6-4	1,2
LAWP 120/35			35	50				8,0			6-5	1
LAWP 120/50			50	70				9,8				1,1
LAWP 120/70			70	95				11,2		3-3	6-6	1
LAWP 120/95			95	120				13,2				1,4
LAWP 150/25	150	185	25	35	25,0	150	16,3	6,8	25	3-2	6-4	1,4
LAWP 150/35			35	50				8,0			6-5	
LAWP 150/50			50	70				9,8				1,3
LAWP 150/70			70	95				11,2		3-3		
LAWP 150/95			95	120				13,2			6-6	1,35
LAWP 150/120			120	150				14,7				1,2

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_1 re/se [mm²]	Cross-section, d_2 rm/sm [mm²]	Cross-section, d_2 re/se [mm²]	D	L	d_1	d_2	Socket code no.	Lz/s	Lz/w	Weight [kg]
LAWP 185/25	185	240	25	35	28,5	150	18,3	6,8	28	3-2	6-4	1,8
LAWP 185/35			35	50				8,0			6-5	
LAWP 185/50			50	70				9,8				
LAWP 185/70			70	95				11,2		3-3	6-6	
LAWP 185/95			95	120				13,2				1,4
LAWP 185/120			120	150				14,7				1,75
LAWP 185/150			150	185				16,3				1,55
LAWP 240/25	240	300	25	35	32,0	170	21,0	6,8	32	3-2	8-4	3
LAWP 240/35			35	50				8,0			8-5	
LAWP 240/50			50	70				9,8				
LAWP 240/70			70	95				11,2		3-3	8-6	
LAWP 240/95			95	120				13,2				
LAWP 240/120			120	150				14,7				2,5
LAWP 240/150			150	185				16,3				
LAWP 240/185			185	240				18,3				

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors, LAW … type

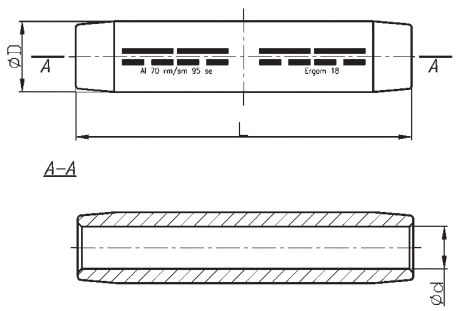
FEATURES & BENEFITS

- connector Al, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- cable cross-section change impossible



MECHANICAL DATA

Material	Al
Covering	uncoated



ELECTRICAL DATA

Voltage [kV]	1 ÷ 36

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Tin version on request

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	d	D	L	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LAW 16	25	16	5,6	12,0	90	12	2-2	4-4	10	0,1
LAW 25	35	25	6,8	12,0	90	12	2-2	4-4	10	0,2
LAW 35	50	35	8,0	14,0	90	14	2-2	4-4	10	0,3
LAW 50	70	50	9,8	16,0	90	16	2-2	4-4	10	0,35
LAW 70	95	70	11,2	18,5	95	18	2-2	4-4	10	0,47
LAW 95	120	95	13,2	22,5	100	22	2-2	4-4	10	0,72
LAW 120	150	120	14,7	23,0	105	22	2-2	4-4	10	0,75
LAW 150	185	150	16,3	25,0	105	25	2-2	4-4	10	0,9
LAW 185	240	185	18,3	28,5	125	28	2-2	5-5	10	1,4
LAW 240	300	240	21,0	32,0	125	32	2-2	5-5	10	1,6
LAW 300	-	300	23,3	34,0	125	34	2-2	5-5	10	1,9
LAW 400	-	400	26,0	38,5	150	38	3-3	-	1	0,26
LAW 500	-	500	29,0	44,0	170	44	3-3	-	1	0,4

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Compression connectors, LAW …/… type

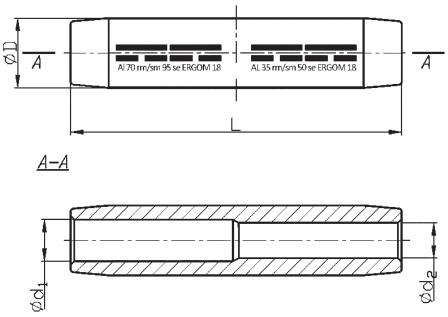
FEATURES & BENEFITS

- connector Al, without galvanic tin plating, to make “butt splice” cable connections
- description of cable cross-section, crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- wide range of solutions facilitating connection of cables of various diameters



MECHANICAL DATA

Material	Al
Covering	uncoated



ELECTRICAL DATA

Voltage [kV]	1 ÷ 36

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.
- larger recommended number of crimps always refers to a larger ID of the connector.

Tin version on request.

Type	Cross-section, d_1 rm/sm [mm²]	Cross-section, d_1 re/se [mm²]	Cross-section, d_2 rm/sm [mm²]	Cross-section, d_2 re/se [mm²]	D	L	d_1	d_2	Socket code no.	Lz/s	Lz/w	Quantity in package [pcs]	Weight [kg]
LAW 35/25	35	50	25	35	14,0	90	8,0	6,8	14	2-2	4-4	10	0,55
LAW 50/25	50	70	25	35	16,0	90	9,8	6,8	16	2-2	4-4	10	0,55
LAW 50/35			35	50				8,0					0,05
LAW 70/35	70	95	35	50	18,5	95	11,2	8,0	18	2-2	4-4	10	0,65
LAW 70/50			50	70				9,8					0,7
LAW 95/50	95	120	50	70	22,5	100	13,2	9,8	22	2-2	4-4	10	1,15
LAW 95/70			70	95				11,2					1,1
LAW 120/50	120	150	50	70	23,0	105	14,7	9,8	22	2-2	4-4	10	1,35
LAW 120/70			70	95				11,2					1,3
LAW 120/95			95	120				13,2					1,25
LAW 150/95	150	185	95	120	25,0	105	16,3	13,2	25	2-2	4-4	10	1,45
LAW 150/120			120	150				14,7					1,4
LAW 185/120	185	240	120	150	28,5	125	18,3	14,7	28	2-2	5-4	10	1,75
LAW 185/150			150	185				16,3					1,7
LAW 240/150	240	300	150	185	32,0	125	21,0	16,3	32	2-2	5-4	10	2,25
LAW 240/185			185	240				18,3			5-5		2,2
LAW 300/185	300	-	185	240	34,0	125	23,4	18,3	34	2-2	5-5	1	0,36
LAW 300/240			240	300				21,0					0,35
LAW 400/240	400	-	240	300	38,5	150	26,0	21,0	38	3-3	-	1	0,36
LAW 400/300			300	-				23,6					0,37

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Aluminium pins for cables with flexible insulation, acc. to VDE 0295, BAK type

FEATURES & BENEFITS

- Al pin, without galvanic plating
- description of cable cross-section, crimping die number on crimped part surface
- facilitates disconnection after loosening screws in terminal

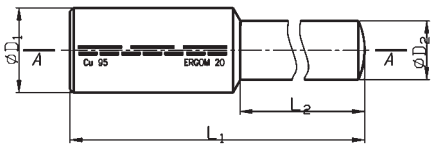


LOGISTIC DATA

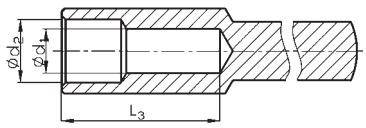
Quantity in package [pcs]	1

MECHANICAL DATA

Material	Al
Covering	uncoated



A–A



DIMENSIONS

L_2	65

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded.

Dimension d_2 - cable diameter with insulation must be provided when ordering.

Tin version on request.

Type	Cross-section, re/se [mm²]	Cross-section, rm/sm [mm²]	L_1	L_3	d_1	D_1	D_2	Socket code no.	Lz/s	Lz/w	Weight [kg]
BAK 35	50	35	140	43	8,3	18,5	8,0	18	3	7	0,06
BAK 50	70	50	140	43	10,0	20,5	10,0	20	3	7	0,07
BAK 70	95	70	140	53	11,5	22,5	10,0	22	3	8	0,08
BAK 95	120	95	143	57	13,5	22,5	11,0	22	3	8	0,08
BAK 120	150	120	148	57	14,8	23,0	12,0	22	4	9	0,09
BAK 150	185	150	153	61	16,5	25,5	14,0	25	4	9	0,11

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

ERGOM®





Al-Cu tubular terminals

Al-Cu tubular terminals - ring terminals

Aluminium-copper longitudinally sealed tubular terminals, TMA type	267
Aluminium-copper longitudinally sealed tubular terminals, KMA type	269

Al-Cu tubular terminals - joints

Aluminium-copper connectors, LMAN type	271
Aluminium-copper connectors for sector-shaped conductors, LMANS type	273
Aluminium-copper connectors, LMANW type	275

Al-Cu tubular terminals - pins

Aluminium-copper pin terminals BMAN type	276

Al-Cu tubular terminals - washers

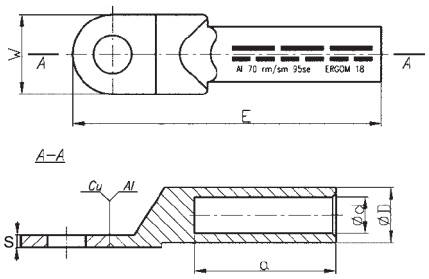
Aluminium-copper washers, PMA type	278

Aluminium-copper longitudinally sealed tubular terminals, TMA type

FEATURES & BENEFITS

- ring terminal, Cu-Al
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- low-cost version





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al-Cu
Covering	uncoated

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	Cross-section, re/se [mm²]	a	d	D	E	S	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
TMA 16/8	16	25	32	5,8	10	70	3,0	16,0	M8	12	2	4	0,19
TMA 16/10									M10				
TMA 25/8	25	35	34	7,2	12	75	3,0	18,0	M8	12	2	4	0,21
TMA 25/10									M10				0,2
TMA 35/8	35	50	40	8,5	14	85	3,0	20,0	M8	14	3	5	0,3
TMA 35/10									M10				
TMA 50/8	50	70	42	9,7	16	90	3,5	23,0	M8	16	3	5	0,4
TMA 50/10									M10				
TMA 50/12									M12				
TMA 50/14									M14				
TMA 70/10	70	95	47	11,5	18	102	3,5	26,0	M10	18	3	6	0,65
TMA 70/12									M12				0,6
TMA 70/14									M14				
TMA 70/16									M16				
TMA 95/10	95	120	50	13,5	22	112	4,5	28,0	M10	22	3	6	0,9
TMA 95/12									M12				
TMA 95/14									M14				
TMA 95/16									M16				
TMA 120/10	120	150	53	15,0	22	120	4,5	31,0	M10	22	3	7	1,1
TMA 120/12									M12				
TMA 120/14									M14				
TMA 120/16									M16				
TMA 150/10	150	185	55	16,5	24	125	5,5	35,0	M10	25	3	7	1,3
TMA 150/12									M12				1,2
TMA 150/14									M14				1,25
TMA 150/16									M16				
TMA 150/20									M20				1,3
TMA 185/10	185	240	58	18,5	27	133	6,0	37,5	M10	28	3	7	1,8
TMA 185/12									M12				
TMA 185/14									M14				
TMA 185/16									M16				1,7
TMA 185/20									M20				
TMA 240/10	240	300	60	21,0	30	140	6,5	40,0	M10	32	3	8	2,4
TMA 240/12									M12				
TMA 240/14									M14				
TMA 240/16									M16				2,1
TMA 240/20									M20				

Type	Cross-section, rm/sm [mm²]	Cross-section, re/se [mm²]	a	d	D	E	S	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
TMA 300/10	300	-	65	23,5	34	160	7,0	44,5	M10	34	3	8	3,8
TMA 300/12									M12				3,7
TMA 300/14									M14				
TMA 300/16									M16				
TMA 300/20									M20				

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Aluminium-copper longitudinally sealed tubular terminals, KCA type

FEATURES & BENEFITS

- ring terminal Cu-Al, crimped part as per DIN
- description of cable cross-section, terminal size and crimping die number on crimped part surface



LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

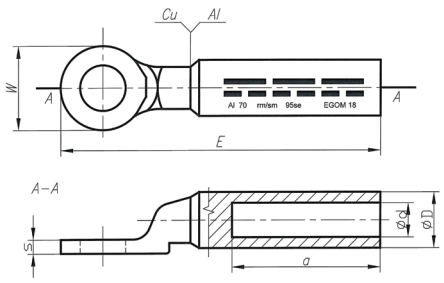
Material	Al-Cu
Covering	uncoated

CERTIFICATES & STANDARDS

Design	DIN 46329 – concerns only the tubular part

NOTE!

- terminals are filled with special contact grease, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.



Type	Cross-section, rm/sm [mm²]	Cross-section, re/se [mm²]	a	d	D	E	S	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KMA 16/8	16	25	30,0	5,6	12,0	59,0	4,0	24	M8	12	2	4	0,4
KMA 16/10									M10				
KMA 25/8	25	35	30,0	6,8	12,0	63,0	4,0	24	M8	12	2	4	0,36
KMA 25/10									M10				
KMA 25/12									M12				
KMA 35/8	35	50	42,0	8,0	14,0	75,0	4,0	24	M8	14	3	5	0,47
KMA 35/10									M10				0,46
KMA 35/12									M12				0,42
KMA 50/8	50	70	42,0	9,8	16,0	75,0	5,0	24	M8	16	3	5	0,57
KMA 50/10									M10				
KMA 50/12									M12				
KMA 70/8	70	95	52,0	11,2	18,5	89,0	5,0	24	M8	18	3	6	
KMA 70/10									M10				0,58
KMA 70/12									M12				0,56
KMA 70/16						95,0		30	M16				
KMA 95/8	95	120	56,0	13,2	22,0	93,0	5,0	24	M8	22	3	6	
KMA 95/10									M10				0,9
KMA 95/12									M12				
KMA 95/16						99,0		30	M16				
KMA 120/8	120	150	56,0	14,7	23,0	99,0	6,0	24	M8	22	3	7	
KMA 120/10									M10				1,1
KMA 120/12								30	M12				
KMA 120/16									M16				
KMA 150/8	150	185	60,0	16,3	25,0	103,0	6,0	24	M8	25	3	7	
KMA 150/10									M10				1,2
KMA 150/12								30	M12				
KMA 150/16									M16				
KMA 185/8	185	240	60,0	18,3	28,5	103,0	6,5	30	M8	28	3	7	
KMA 185/10									M10				2
KMA 185/12									M12				
KMA 185/16						109,0		36	M16				2,2
KMA 185/20									M20				

Type	Cross-section, rm/sm [mm²]	Cross-section, re/se [mm²]	a	d	D	E	S	W	Screw hole	Socket code no.	Lz/s	Lz/w	Weight [kg]
KMA 240/10	240	300	70,0	21,0	32,0	113,0	6,5	30	M10	32	3	8	3,7
KMA 240/12									M12				3,5
KMA 240/16						119,0		36	M16				3,4
KMA 240/20									M20				3,2

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow



Variant on request

Aluminium-copper connectors, LMAN type

FEATURES & BENEFITS

- tight connector Cu-Al, crimped part as per DIN
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- wide range of solutions facilitating connection of cables of various diameters

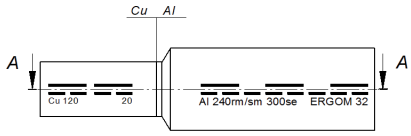


LOGISTIC DATA

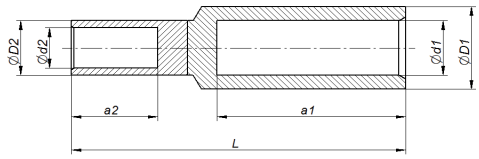
Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al-Cu
Covering	uncoated



A-A



CERTIFICATES & STANDARDS

Design	DIN 46235 – concerns only the tubular part (Cu) DIN 46329 – concerns only the tubular part (Al)

NOTE!

- terminals are filled with special contact grease in Al section, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, Al rm/sm [mm²]	Cross-section, Al re/se [mm²]	Cross-section, Cu rm/sm [mm²]	L	d_1	D_1	d_2	D_2	a_1	a_2	Socket code no., Al	Lz/s Al	Lz/w Al	Socket code no., Cu	Lz/s Cu	Lz/w Cu	Weight [kg]
LMAN 25/10			10	57			4,5	6,0		14				6	-		0,16
LMAN 25/16	25	35	16	63	6,8	12,0	5,5	8,5	30	20	12	2	4	8	1	2	0,21
LMAN 25/25			25				7,0	10,0						10			0,22
LMAN 35/16			16				5,5	8,5						8			0,3
LMAN 35/25	35	50	25	75	8,0	14,0	7,0	10	42	20	14	3	5	10	1	2	0,32
LMAN 35/35			35				8,2	12,5						12			0,97
LMAN 50/16			16				5,5	8,5						8			0,37
LMAN 50/25	50	70	25	75	9,8	16,0	7,0	10,0	42	20	16	3	5	10	1	2	0,39
LMAN 50/35			35				8,2	12,5						12			0,45
LMAN 50/50			50	83			10,0	14,5		28				14			0,54
LMAN 70/35			35	85			8,2	12,5		20				12	1	2	0,6
LMAN 70/50	70	95	50	93	11,2	18,5	10,0	14,5	52	28	18	3	6	14	2	3	0,7
LMAN 70/70			70				11,5	16,5						16			0,75
LMAN 95/16			16				5,5	8,5						8			0,78
LMAN 95/25			25	89			7,0	10		20				10	1	2	0,8
LMAN 95/35			35				8,2	12,5						12			0,86
LMAN 95/50	95	120	50	97	13,2	22,0	10,0	14,5	56	28	22	3	6	14		3	0,96
LMAN 95/70			70				11,5	16,5						16	2		1,02
LMAN 95/95			95	104			13,5	19,0		35				18		4	1,17
LMAN 95/120			120				15,5	21,0						20			1,26
LMAN 120/35			35	89			8,2	12,5		20				12		2	0,9
LMAN 120/50			50	97			10,0	14,5		28				14		3	1,0
LMAN 120/70	120	150	70		14,7	23,0	11,5	16,5	56		22	3	6	16	3		1,1
LMAN 120/95			95	104			13,5	19,0		35				18		4	1,22
LMAN 120/120			120				15,5	21,0						20			1,26
LMAN 150/35			35	93			8,2	12,5		20				12	1	2	1,11
LMAN 150/50			50	101			10,0	14,5		28				14		3	1,21
LMAN 150/70	150	185	70		16,3	25,0	11,5	16,5	60		25	3	6	16	2		1,26
LMAN 150/95			95	108			13,5	19,0		35				18		4	1,43
LMAN 150/120			120				15,5	21,0						20			1,48
LMAN 150/150			150				17,0	23,5						22			1,63

Type	Cross-section, Al rm/sm [mm²]	Cross-section, Al re/se [mm²]	Cross-section, Cu rm/sm [mm²]	L	d_1	D_1	d_2	D_2	a_1	a_2	Socket code no., Al	Lz/s Al	Lz/w Al	Socket code no., Cu	Lz/s Cu	Lz/w Cu	Weight [kg]
LMAN 185/50			50	105			10,0	14,5		28				14		3	1,58
LMAN 185/70			70				11,5	16,5						16			1,64
LMAN 185/95	185	240	95		18,3	28,5	13,5	19,0	60		28	3	6	18	2		1,8
LMAN 185/120			120	112			15,5	21,0		35				20		4	1,85
LMAN 185/150			150				17,0	23,5						22			2,02
LMAN 185/185			185	117			19,0	25,5		40				25		5	2,17
LMAN 240/50			50	117			10,0	14,5		28				14		3	2,06
LMAN 240/70			70				11,5	16,5						16			2,12
LMAN 240/95			95		21,0		13,5	19,0						18			2,28
LMAN 240/120	240	300	120	124		32,0	15,5	21,0	70	35	32	3	8	20	2	4	2,34
LMAN 240/150			150				17,0	23,5						22			2,5
LMAN 240/185			185	129			19,0	25,5		40				25		5	2,65
LMAN 240/240			240		21,0		21,5	29,0						28		-	2,91
LMAN 300/120			120	124			15,5	21,0		35				20		4	2,78
LMAN 300/150			150				17,0	23,5						22		4	3,11
LMAN 300/185	300	-	185	129	23,3	34,0	19,0	25,5	70	40	34	3	8	25	2	5	3,27
LMAN 300/240			240				21,5	29,0						28		-	3,75
LMAN 300/300			300	139			24,5	32,0		50				32		-	4,17
LMAN 400/150			150	127			17,0	23,5		35				22		4	-
LMAN 400/185			185	132			19,0	25,5		40				25		5	-
LMAN 400/240	400	-	240	132	26,0	38,0	21,5	29,0	73		38	4	-	28	3		-
LMAN 400/300			300	142			24,5	32,0		50				32		-	-
LMAN 400/400			400	162			27,5	38,0		70				38			-

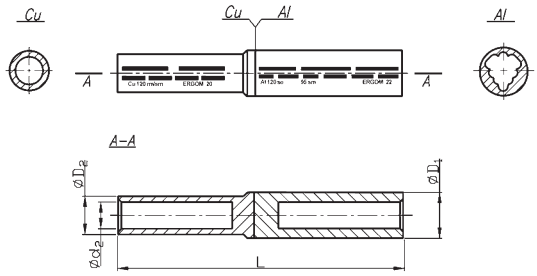
Lz/s Al - Number of crimping - wide Al Lz/w Al - Number of crimping - narrow Al Lz/s Cu - Number of crimping - wide Cu Lz/w Cu - Number of crimping - narrow Cu

Aluminium-copper connectors for sector-shaped conductors, LMANS type

FEATURES & BENEFITS

- tight connector Cu-Al, crimped part as per DIN Al crimping part designed for sector-shaped cable conductors with SM Class II profiles - no conductor rounding required
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- wide range of solutions facilitating connection of cables of various diameters





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al-Cu
Covering	uncoated

CRIMPING SHAPE

Number of crimping - wide Al	3

CERTIFICATES & STANDARDS

Design	DIN 46235 – concerns only the tubular part (Cu) DIN 46329 – concerns only the tubular part (Al)

NOTE!

- terminals are filled with special contact grease in Al section, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, Al sm [mm²]	Cross-section, Al se [mm²]	Cross-section, Cu rm/sm [mm²]	L	D_1	d_2	D_2	Socket code no., Al	Lz/w Al	Socket code no., Cu	Lz/s Cu	Lz/w Cu	Weight [kg]
LMANS 50/16	35	50	16	77	16,0	5,6	8,4	16	5	8	1	2	0,29
LMANS 50/25	35	50	25	77	16,0	7,0	9,9	16	5	10	1	2	0,33
LMANS 50/35	35	50	35	77	16,0	8,2	12,4	16	5	12	1	2	0,4
LMANS 50/50	35	50	50	86	16,0	10,0	14,3	16	5	14	2	3	0,49
LMANS 70/16	50	70	16	87	18,5	5,6	8,4	18	6	8	1	2	0,4
LMANS 70/25	50	70	25	87	18,5	7,0	9,9	18	6	10	1	2	0,42
LMANS 70/35	50	70	35	87	18,5	8,2	12,4	18	6	12	2	2	0,5
LMANS 70/50	50	70	50	96	18,5	10,0	14,3	18	6	14	2	3	0,63
LMANS 70/70	50	70	70	96	18,5	11,5	16,3	18	6	16	2	3	0,7
LMANS 70/95	50	70	95	102	18,5	13,5	18,8	18	6	18	2	4	0,88
LMANS 70/120	50	70	120	102	18,5	13,5	20,8	18	6	20	2	4	0,88
LMANS 95/16	70	95	16	93	22,0	5,6	8,4	22	6	8	1	2	0,57
LMANS 95/25	70	95	25	93	22,0	7,0	9,9	22	6	10	1	2	0,63
LMANS 95/35	70	95	35	93	22,0	8,2	12,4	22	6	12	1	2	0,71
LMANS 95/50	70	95	50	102	22,0	10,0	14,3	22	6	14	2	3	0,82
LMANS 95/70	70	95	70	102	22,0	11,5	16,3	22	6	16	2	3	0,9
LMANS 95/95	70	95	95	108	22,0	13,5	18,8	22	6	18	2	4	1,07
LMANS 95/120	70	95	120	108	22,0	15,5	20,8	22	6	20	2	4	1,14
LMANS 120/16	95	120	16	93	23,0	5,6	8,4	22	6	8	1	2	0,6
LMANS 120/25	95	120	25	93	23,0	7,0	9,9	22	6	10	1	2	0,63
LMANS 120/35	95	120	35	93	23,0	8,2	12,4	22	6	12	1	2	0,71
LMANS 120/50	95	120	50	102	23,0	10,0	14,3	22	6	14	2	3	0,82
LMANS 120/70	95	120	70	102	23,0	11,5	16,3	22	6	16	2	3	0,9
LMANS 120/95	95	120	95	108	23,0	13,5	18,8	22	6	18	2	4	1,08
LMANS 120/120	95	120	120	108	23,0	15,5	20,8	22	6	20	2	4	1,14
LMANS 150/16	120	150	16	97	25,0	5,6	8,4	25	6	8	1	2	0,73

Type	Cross-section, Al sm [mm²]	Cross-section, Al se [mm²]	Cross-section, Cu rm/sm [mm²]	L	D_1	d_2	D_2	Socket code no., Al	Lz/w Al	Socket code no., Cu	Lz/s Cu	Lz/w Cu	Weight [kg]
LMANS 150/25	120	150	25	97	25,0	7,0	9,9	25	6	10	1	2	0,74
LMANS 150/35	120	150	35	97	25,0	8,2	12,4	25	6	12	1	2	0,83
LMANS 150/50	120	150	50	106	25,0	10,0	14,3	25	6	14	2	3	0,94
LMANS 150/70	120	150	70	106	25,0	11,5	16,3	25	6	16	2	3	1,03
LMANS 150/95	120	150	95	112	25,0	13,5	18,8	25	6	18	2	4	1,17
LMANS 150/120	120	150	120	112	25,0	15,5	20,8	25	6	20	2	4	1,26
LMANS 150/150	120	150	150	112	25,0	17,0	23,3	25	6	22	2	4	1,44
LMANS 185/25	150	185	25	100	28,5	7,0	9,9	28	6	10	1	2	1,05
LMANS 185/35	150	185	35	100	28,5	8,2	12,4	28	6	12	1	2	1,17
LMANS 185/50	150	185	50	109	28,5	10,0	14,3	28	6	14	1	3	1,23
LMANS 185/70	150	185	70	109	28,5	11,5	16,3	28	6	16	2	3	1,36
LMANS 185/95	150	185	95	115	28,5	13,5	18,8	28	6	18	2	4	1,51
LMANS 185/120	150	185	120	115	28,5	15,5	20,8	28	6	20	2	4	1,58
LMANS 185/150	150	185	150	115	28,5	17,0	23,3	28	6	22	2	4	1,79
LMANS 185/185	150	185	185	120	28,5	19,0	25,3	28	6	25	2	5	1,96
LMANS 240/50	185	240	50	121	32,0	10,0	14,3	32	8	14	2	3	1,64
LMANS 240/70	185	240	70	121	32,0	11,5	16,3	32	8	16	2	3	1,71
LMANS 240/95	185	240	95	127	32,0	13,5	18,8	32	8	18	2	3	2,01
LMANS 240/120	185	240	120	127	32,0	15,5	20,8	32	8	20	2	4	2,1
LMANS 240/150	185	240	150	127	32,0	17,0	23,3	32	8	22	2	4	2,3
LMANS 240/185	185	240	185	132	32,0	19,0	25,3	32	8	25	2	5	2,45
LMANS 240/240	185	240	240	132	32,0	21,5	28,7	32	8	28	2	-	2,8

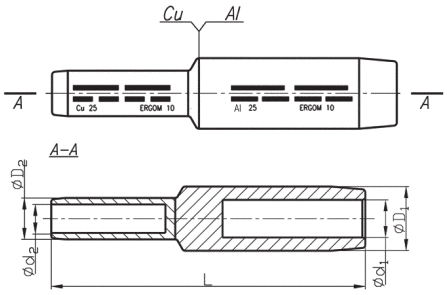
Lz/w Al - Number of crimping - narrow Al Lz/s Cu - Number of crimping - wide Cu Lz/w Cu - Number of crimping - narrow Cu

Aluminium-copper connectors, LMANW type

FEATURES & BENEFITS

- tight connector Cu-Al
- description of cable cross-section, terminal size and crimping die number on crimped part surface
- for operation with MV equipment; connector shape ensures more even electromagnetic field distribution
- wide range of solutions facilitating connection of cables of various diameters





LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al-Cu
Covering	uncoated

ELECTRICAL DATA

Voltage [kV]	≥ 1

NOTE!

- terminals are filled with special contact grease in Al section, packed in a separate foil bag;
- sector-shaped conductors must be rounded with special dies.

Type	Cross-section, Al rm/sm [mm²]	Cross-section, Al re/se [mm²]	Cross-section, Cu rm/sm [mm²]	L	d_1	D_1	d_2	D_2	Socket code no., Al	Lz/s Al	Lz/w Al	Socket code no., Cu	Lz/s Cu	Lz/w Cu	Weight [kg]
LMANW 70/35	70	95	35	86	11,2	18,5	8,2	12,5	18	2	4	12	1	2	0,6
LMANW 70/50			50	94			10,0	14,5				14		3	0,62
LMANW 70/70			70				11,5	16,5				16		4	0,66
LMANW 95/35	95	120	35	91	13,2	22,0	8,2	12,5	22	2	4	12	1	2	0,95
LMANW 95/50			50	98			10,0	14,5				14		3	
LMANW 95/70			70				11,5	16,5				16			1,16
LMANW 95/95			95	112			13,5	19,0				18	2	4	1,23
LMANW 120/35	120	150	35	95	14,7	23,0	8,2	12,5	22	2	4	12	1	2	0,92
LMANW 120/50			50	101			10,0	14,5				14		3	
LMANW 120/70			70				11,5	16,5				16			1,05
LMANW 120/95			95	114			13,5	19,0				18	2	4	1,25
LMANW 120/120			120				15,5	21,0				20			
LMANW 150/70	150	185	70	103	16,3	25,0	11,5	16,5	25	2	4	16	1	3	1,05
LMANW 150/95			95	116			13,5	19,0				18	2	4	1,4
LMANW 150/120			120				15,5	21,0				20			1,55
LMANW 150/150			150	125			17,0	23,5				22			1,65
LMANW 185/70	185	240	70	117	18,3	28,5	11,5	16,5	28	2	5	16	1	3	1,7
LMANW 185/95			95	128			13,5	19,0				18	2	4	1,73
LMANW 185/120			120				15,5	21,0				20			1,75
LMANW 185/150			150	137			17,0	23,5				22			2,15
LMANW 185/185			185	139			19,0	25,5				25			2,05
LMANW 240/120	240	300	120	138	21,0	32,0	15,5	21,0	32	2	5	20	2	4	2,5
LMANW 240/150			150	143			17,0	23,5				22			2,65
LMANW 240/185			185				19,0	25,5				25			2,7
LMANW 240/240			240				21,5	29,0				28			3,15
LMANW 300/150	300	-	150	138	23,3	34,0	1 7,0	23,5	34	3	–	22	2	–	3,6
LMANW 300/185			185	143			19,0	25,5				25			3,7
LMANW 300/240			240				21,5	29,0				28			4,4
LMANW 300/300			300	145			24,5	32,0				32			4,8

Lz/s Al - Number of crimping - wide Al Lz/w Al - Number of crimping - narrow Al Lz/s Cu - Number of crimping - wide Cu Lz/w Cu - Number of crimping - narrow Cu

Aluminium-copper pins, BMAN type

FEATURES & BENEFITS

- Cu pin with connection element for Al cables, as per DIN, without galvanic plating
- description of cable cross-section, crimping die number on crimped part surface
- facilitates disconnection after loosening screws in terminal

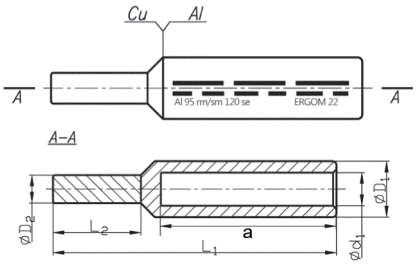


LOGISTIC DATA

Quantity in package [pcs]	10

MECHANICAL DATA

Material	Al-Cu
Covering	uncoated



CERTIFICATES & STANDARDS

Design	DIN 46329 – concerns only the tubular part (Al)

NOTE!

- terminals filled with special contact grease, packed in a separate foil bag;
- Sector-shaped conductors must be rounded with special dies.

Type	Cross-section, rm/sm [mm²]	Cross-section, re/se [mm²]	a	L_1	L_2	d_1	D_1	D_2	Socket code no.	Lz/s	Lz/w	Weight [kg]
BMAN 25	25	35	31	65	23	6,8	12,0	6	12	2	4	0,16
BMAN 35	35	50	43	77	23	8,0	14,0	7	14	3	5	0,25
BMAN 50	50	70		86	32	9,8	16,0	8	16			0,33
BMAN 70	70	95	53	96	32	11,2	18,5	10	18	3	6	0,54
BMAN 95	95	120	57	108	38	13,2	22,0	12	22	3	6	0,87
BMAN 120	120	150				14,7	23,0					0,9
BMAN 150	150	185	61	112	38	16,3	25,0	12	25	3	7	1,09
BMAN 185	185	240		120	44	18,3	28,5	14	28			1,57
BMAN 240	240	300	71	132	44	21,0	32,0	16	32	3	7	2,18
BMAN 300	300	-		142	46	23,3	34,0	18	38			2,67

Lz/s - Number of crimping - wide Lz/w - Number of crimping - narrow

Copper-aluminium sleeve terminals, HMA

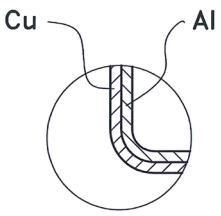
FEATURES & BENEFITS

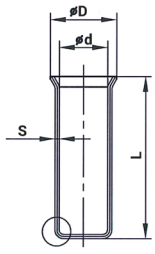
- thin-walled terminal, Cu-Al
- enable connecting Al flexible cables to Cu or brass terminals, e.g. in 3-phase extension cables or electrical car supply wires
- other designs on client's request
- patent-protected design



LOGISTIC DATA

Quantity in package [pcs]	100





MECHANICAL DATA

Material	External layer – copper Internal layer – aluminium
Covering	uncoated

DIMENSIONS

s	0,25

CERTIFICATES & STANDARDS

Design	terminals have a bottom that prevents the wire core from touching the equipment terminal

Type	AWG cross-section	Cross-section, rm/sm [mm²]	L	d	D	Weight [kg]
HMA 6/10	10	6	10,5	3,5	4,7	0,17
HMA 6/12			12,5			0,19
HMA 6/14			14,5			0,21
HMA 10/10	8	10	10,5	4,5	5,8	0,19
HMA 10/12			12,5			0,21
HMA 10/14			14,5			0,24
HMA 10/18			18,5			0,29
HMA 16/10	6	16	10,5	6,0	7,5	0,19
HMA 16/12			12,5			0,22
HMA 16/14			14,5			0,25
HMA 16/18			18,5			0,3

Aluminium-copper washers, PMA type

FEATURES & BENEFITS

- Cu-Al washer
- facilitates connection of aluminium cable to copper busbar or vice versa



LOGISTIC DATA

Quantity in package [pcs]	100

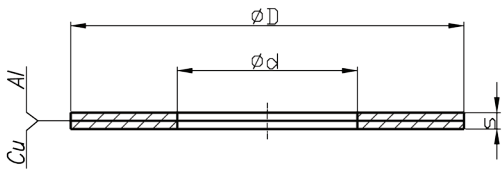
Al-Cu washers are made of a bimetal sheet (Al-Cu).

MECHANICAL DATA

Material	Al-Cu
Covering	uncoated

DIMENSIONS

s	1



Type	d	D	Screw	Weight [kg]
PMA 3	3,5	6,5	M3	0,03
PMA 4	4,5	8,5	M4	0,03
PMA 5	5,5	11,0	M5	0,05
PMA 6	6,5	13,0	M6	0,06
PMA 8	8,5	17,0	M8	0,1
PMA 10	11,0	22,0	M10	0,14
PMA 12	13,0	28,0	M12	0,27
PMA 16	17,0	35,0	M16	0,41
PMA 20	21,0	40,0	M20	0,51

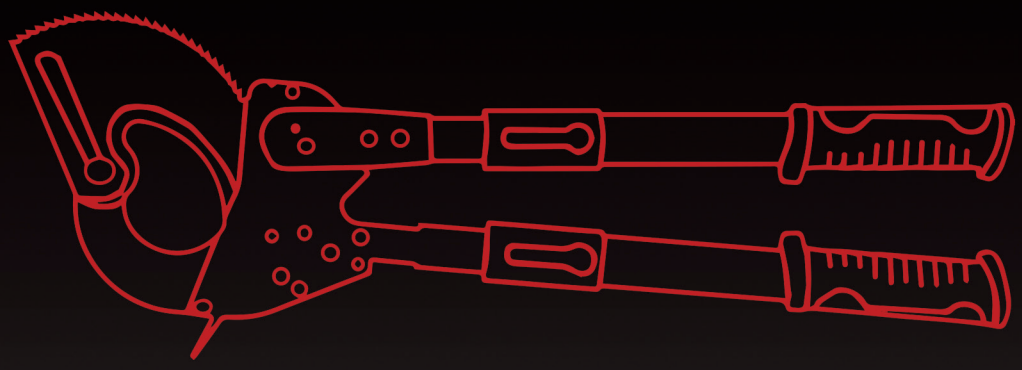
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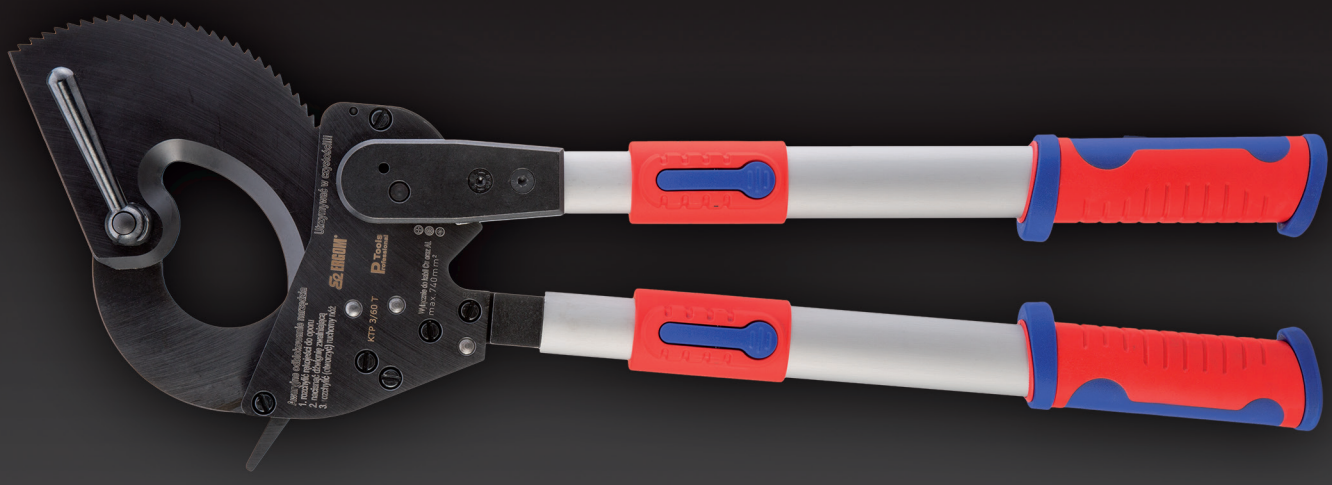


Tools for electricians

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Hand cutters

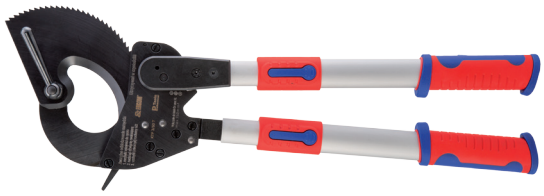
Professional ratched cable cutter, KTP KTP 3/34 type	284
Professional ratched cable cutter, KTP 3/60 T type	283
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Professional ratched cable cutter, KTP 3/62 type	284
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Cutter, KT 102	287
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Professional ratched cable cutter, KTP 3/60 T type

P Tools Professional

FEATURES & BENEFITS

- ☑ profiled blades designed for cutting Al cables up to Ø 60 mm and Cu cables up to Ø 50 mm
- ☑ cutter gear drive decreases power necessary for cutting operations
- ☑ opened cutting head ensures initial blade movement; blade can be retracted during each cutting operation stage
- ☑ tool grip length adjustment facilitates transport and reduces force necessary to cut cables



LOGISTIC DATA

Type	KTP 3/60 T
Weight [kg]	3,85

MECHANICAL DATA

Length [mm]	610-810

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	800	60
Single-wire copper cables	630	50

Professional ratched cable cutter, KTP 3/100 T type

P Tools Professional

FEATURES & BENEFITS

- ☑ profiled blades designed for cutting Al cables up to Ø 100 mm and Cu cables up to Ø 60 mm
- ☑ cutter gear drive decreases power necessary for cutting operations
- ☑ opened cutting head ensures initial blade movement; blade can be retracted during each cutting operation stage
- ☑ tool grip length adjustment facilitates transport and reduces force necessary to cut cables



LOGISTIC DATA

Type	KTP 3/100 T (KT 3/100)
Weight [kg]	4,95

MECHANICAL DATA

Length [mm]	660-860

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	1000	100
Single-wire copper cables	800	60

Professional ratched cable cutter KTP 3/34 type

P Tools Professional



FEATURES & BENEFITS

- ☑ profiled blades designed for cutting Al and Cu cables up to Ø 34 mm
- ☑ cutter gear drive decreases power necessary for cutting operations
- ☑ opened cutting head ensures initial blade movement
- ☑ blade can be retracted during each cutting operation stage

LOGISTIC DATA

Type	KT 3/34
Weight [kg]	0,6

MECHANICAL DATA

Length [mm]	260

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	240	34
Single-wire copper cables	240	34

Professional ratched cable cutter KTP 3/62 type

P Tools Professional



FEATURES & BENEFITS

- ☑ profiled blades designed for cutting Al cables up to Ø 62 mm and Cu cables up to Ø 54 mm
- ☑ cutter gear drive decreases power necessary for cutting operations
- ☑ opened cutting head ensures initial blade movement
- ☑ blade can be retracted during each cutting operation stage

LOGISTIC DATA

Type	KTP 3/62
Weight [kg]	0,8

MECHANICAL DATA

Length [mm]	297

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	300	62
Single-wire copper cables	240	54

Professional ratched cable cutter, KTRP 3/38 type

P Tools Professional

FEATURES & BENEFITS

- profiled blades designed for cutting AFL cables up to Ø 38 mm and steel cords up to Ø 9 mm
- cutter gear drive decreases power necessary for cutting operations
- opened cutting head ensures initial blade movement
- blade can be retracted during each cutting operation stage



LOGISTIC DATA

Type	KTRP 3/38
Weight [kg]	1,45

MECHANICAL DATA

Length [mm]	355

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	185	28
Single-wire copper cables	150	25
Steel – aluminium AFL type ropes	240	38
Soft steel rods (max. 28 HRC)	-	9
Fe type rope (max. 28 HRC)	95	9
Fe bar-wire (max. 28 HRC)	-	7

Cutter, KTP-AFL 2 for AFL cords



FEATURES & BENEFITS

- blades designed for cutting AFL cables up to Ø 30 mm and steel cords up to Ø 14 mm
- profiled blades facilitate cutting

LOGISTIC DATA

Type	KT-AFL 2
Weight [kg]	5

MECHANICAL DATA

Length [mm]	745

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	400	30
Single-wire copper cables	300	27
Steel – aluminium AFL type ropes	300	30
ACAR cables	-	30
ACSR cables	-	30
ZEBRA cables	-	30
Phone cables	-	30
Flexible steel ropes (28÷42 HRC)	-	14
Soft steel rods (max. 28 HRC)	-	5

Cutter, KT 100



FEATURES & BENEFITS

- blades designed for cutting Al cables up to Ø 8 mm and Cu cables up to Ø 7 mm
- one-handed tool operation
- low-cost version

LOGISTIC DATA

Type	KT 100
Weight [kg]	0,15

MECHANICAL DATA

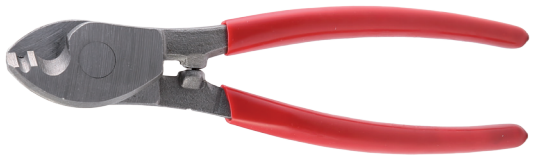
Length [mm]	165

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	10	8
Single-wire copper cables	10	7

Cutter, KT 101

FEATURES & BENEFITS

- profiled blades facilitate cutting of Al and Cu cables up to Ø 8 mm
- easy cutting at minimum cable conductor deformation, even surfaces of cables being cut off
- low-cost version



LOGISTIC DATA

Type	KT 101
Weight [kg]	0,2

MECHANICAL DATA

Length [mm]	160

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	16	8
Single-wire copper cables	16	8

Cutter, KT 102

FEATURES & BENEFITS

- profiled blades facilitate cutting of Al and Cu cables up to Ø 10 mm
- easy cutting at minimum cable conductor deformation, even surfaces of cables being cut off
- low-cost version



LOGISTIC DATA

Type	KT 102
Weight [kg]	0,3

MECHANICAL DATA

Length [mm]	200

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	35	10
Single-wire copper cables	35	10

Cutter, KT 103



FEATURES & BENEFITS

- profiled blades facilitate cutting of Al and Cu cables up to Ø 18 mm
- easy cutting at minimum cable conductor deformation, even surfaces of cables being cut off
- low-cost version

LOGISTIC DATA

Type	KT 103
Weight [kg]	0,5

MECHANICAL DATA

Length [mm]	235

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	50	18
Single-wire copper cables	50	18

Cutter, KT 105



FEATURES & BENEFITS

- profiled blades facilitate cutting of Al cables up to Ø 20 mm and Cu cables up to Ø 16 mm
- easy cutting at minimum cable conductor deformation, even surfaces of cables being cut off
- low-cost version

LOGISTIC DATA

Type	KT 105
Weight [kg]	0,5

MECHANICAL DATA

Length [mm]	220

CUTTING OFF	Max. cross-section of cut off cable [mm²]	Max. diameter of cut off cable [mm]
Single-wire aluminium cables	70	20
Single-wire copper cables	50	16

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Stripping tools

Professional wire stripper, SNP 0,03-16	291
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Professional stripper, SNP 0,03-16

P Tools Professional



FEATURES & BENEFITS

- equipped with one round cable insulation stripping socket, automatically adjusting to cable insulation thickness
- cable insulation cutting depth can be pre-set, and insulation is removed automatically after incision
- equipped with simple cutter and visual indicator for stripped insulation length, 3÷21 mm

LOGISTIC DATA

Type	WIRE STRIPPER SNP 0,03 - 16
Weight [kg]	0,175

MECHANICAL DATA

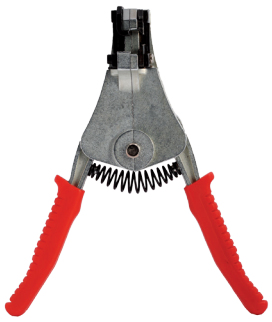
Length [mm]	202

REMOVING INSULATION

Cable cross-section [mm²]	Cable type
0,03÷16	Multi-wire flexible conductors
0,03÷16	One-wire solid conductors

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	5

Stripping pliers, RSI 4/H/0,5-6



FEATURES & BENEFITS

- very popular and reliable tool
- resistant to mechanical damage and dirt; suitable for, e.g. construction site operation
- separate insulation stripping sockets for each cable cross-section
- precise design

LOGISTIC DATA

Type	RSI 4 H
Weight [kg]	0,36

MECHANICAL DATA

Length [mm]	180

REMOVING INSULATION

Socket code no.	Cable cross-section [mm²]	Diameter [mm]	Cable type
1	0,5÷0,75	1,2÷1,4	Multi-wire flexible conductors
2	1	1,6	Multi-wire flexible conductors
3	1,5	2	Multi-wire flexible conductors
4	2,5	2,6	Multi-wire flexible conductors
5	4	3,2	Multi-wire flexible conductors
6	6	3,8	Multi-wire flexible conductors

Stripping pliers, RSI 4/0,5-4



FEATURES & BENEFITS

- very popular and reliable tool
- resistant to mechanical damage and dirt; suitable for, e.g. construction site operation
- separate insulation stripping sockets for each cable cross-section
- low-cost version

LOGISTIC DATA

Type	RSI 4/0,5-4
Weight [kg]	0,36

MECHANICAL DATA

Length [mm]	180

REMOVING INSULATION

Socket code no.	Cable cross-section [mm²]	Diameter [mm]	Cable type
1	0,5	1	Multi-wire flexible conductors
2	1	1,6	Multi-wire flexible conductors
3	1,5	2,0	Multi-wire flexible conductors
4	2,5	2,6	Multi-wire flexible conductors
5	4	3,2	Multi-wire flexible conductors

Wire stripper, Weicon No. 5



FEATURES & BENEFITS

- popular and practical tool for cable cutting and insulation stripping
- one insulation stripping socket, automatically adjusting to cable insulation thickness
- equipped with cable cutter and bumper for repeatable stripping of 5÷12 mm insulation
- light design for workshop applications

LOGISTIC DATA

Type	WEICON NR5
Weight [kg]	0,11

MECHANICAL DATA

Length [mm]	180

REMOVING INSULATION

Cable cross-section [mm²]	Cable type
0,2÷6	Multi-wire flexible conductors
0,5÷4	One-wire solid conductors

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	2

Wire stripper, Mini No. 3 Solar



FEATURES & BENEFITS

- equipped with blades designed for round single-conductor, multi-wire PV cables
- separate internal and external insulation stripping sockets
- circumferential stripping of external and internal coaxial cable insulation
- circumferential stripping of external insulation from flexible round single- and multi-conductor cables

LOGISTIC DATA

Type	MINI NR3 SOLAR
Weight [kg]	0,09

MECHANICAL DATA

Length [mm]	155

REMOVING INSULATION

Cable cross-section [mm²]	Cable type
1,5÷6	Multi-wire flexible conductors
3x0,75-16	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/4-16



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 4 ÷ 16 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- light design

LOGISTIC DATA

Type	AM1/4-16
Weight [kg]	0,07

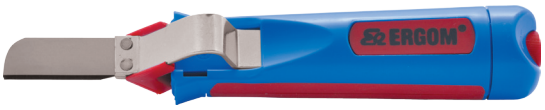
MECHANICAL DATA

Length [mm]	125

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	4÷16	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/4-28 G



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 4 ÷ 28 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- equipped with additional straight blade
- light design

LOGISTIC DATA

Type	AM1/4-28G
Weight [kg]	0,1

MECHANICAL DATA

Length [mm]	155

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	4÷28	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/4-28 H



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 4 ÷ 28 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- equipped with additional hooked blade
- light design

LOGISTIC DATA

Type	AM1/4-28H
Weight [kg]	0,1

MECHANICAL DATA

Length [mm]	185

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	4÷28	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/4-28 S



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 4 ÷ 28 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- equipped with additional retractable hooked blade
- light design

LOGISTIC DATA

Type	AM1/4-28S
Weight [kg]	0,07

MECHANICAL DATA

Length [mm]	140

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	4÷28	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/4-28 Multi



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 4 ÷ 28 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- equipped with wire stripper for internal insulation of multi-conductor, single- and multi-wire cables, 0,5÷6 mm²
- light design

LOGISTIC DATA

Type	AM1/4-28 MULTI
Weight [kg]	0,07

MECHANICAL DATA

Length [mm]	140

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	4÷28	Flexible single-conductor, multi-wire cables - external insulation
-	0,5÷6	Flexible single-conductor, multi-wire cables - internal insulation

Dismantling tool, AM 1/4-28 Voltage



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 4 ÷ 28 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- knife comes with proximity (contactless) voltage presence indicator, range: 50 - 600 V AC
- light design

LOGISTIC DATA

Type	AM1/4-28 VOLTAGE
Weight [kg]	0,07

MECHANICAL DATA

Length [mm]	150

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	4÷28	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/8-27



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 8 ÷ 28 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- light design

LOGISTIC DATA

Type	AM1/8-27
Weight [kg]	0,07

MECHANICAL DATA

Length [mm]	135

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	8÷28	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/28-35



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 28 ÷ 35 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- light design

LOGISTIC DATA

Type	AM1/28-35
Weight [kg]	0,07

MECHANICAL DATA

Length [mm]	170

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	28÷35	Flexible single-conductor, multi-wire cables - external insulation

Dismantling tool, AM 1/35-50



FEATURES & BENEFITS

- equipped with blade for circumferential and longitudinal stripping of external insulation from Ø 35 ÷ 50 mm round multi-conductor cables
- insulation cutting depth adjustment protects internal cable conductors against damage
- light design

LOGISTIC DATA

Type	AM1/35-50
Weight [kg]	0,09

MECHANICAL DATA

Length [mm]	180

REMOVING INSULATION

Cable cross-section [mm²]	Diameter [mm]	Cable type
-	35÷50	Flexible single-conductor, multi-wire cables - external insulation

Knife, AMS



FEATURES & BENEFITS

- for stripping PVC and PE insulation from cables of outside diameter exceeding 25 mm, insulation thickness up to 5 mm
- sliding cutting blade tip protects internal insulation and cable conductor insulation against damage
- special blade design facilitating cutting insulation along cables, circumferentially or spirally
- stripping insulation from large diameter cables without excessive force necessary

LOGISTIC DATA

Type	AMS
Weight [kg]	0,16

MECHANICAL DATA

Length [mm]	155/210



Longitudinal insulation cutting



Cutting insualtion peripheral-wise

Installation knife, NM



FEATURES & BENEFITS

- equipped with main blade and spike-blade for making holes
- blades retractable to wooden handle

LOGISTIC DATA

Type	NM
Weight [kg]	0,05

MECHANICAL DATA

Length [mm]	200

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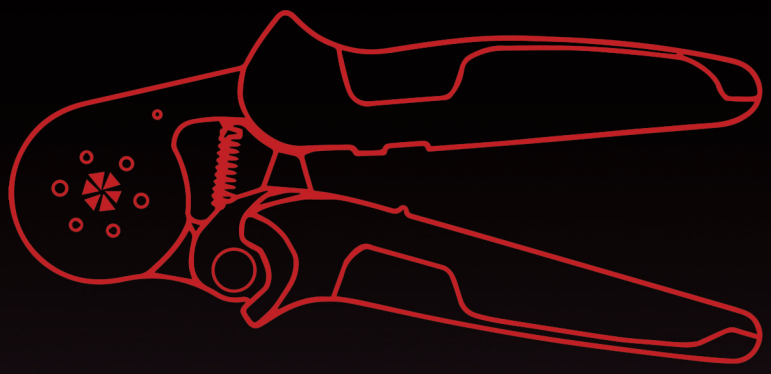


Crimping tools

Crimping tools

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ERGOM®





Crimping tools for cord end terminals

Crimping tools for cord end terminals

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Professional crimping tool, PZP 10/0,14-10

FEATURES & BENEFITS

- professional crimping tool for cord end terminals with precise dies, straight wire stripper and cutter
- separate crimping sockets for each cross-section; “trapeze” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP 10/0,14-10
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,14-0,75	H...ERHN, HI...ERHL	trapezoid
2	1-1,5		
3	2,5		
4	4		
5	6		
6	10		

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, PZP 25/10-25

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals, precise dies included
- separate crimping sockets for each cross-section; “trapeze with teeth” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results



LOGISTIC DATA

Type	PZP 25/10-25
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	H...ERHN, HI...ERHL	trapezoid with fangs
2	25		
3	16		

Professional crimping tool, PZP 50/35-50

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals, precise dies included
- separate crimping sockets for each cross-section; “trapeze with teeth” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results



LOGISTIC DATA

Type	PZP 50/35-50
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	35	H...ERHN, HI... ERHL	trapezoid with fangs
2	50		

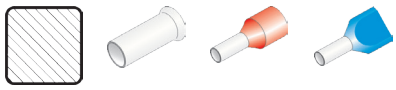
Professional crimping tool, PZP 10 S/0,08-10

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals with rectilinear die movement, precise dies included
- one crimping socket for entire cable range; “square” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP 10 S/0,08-10
Weight [kg]	0,3

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	195

CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
0,08-10	H...ERHN, HI...ERHL	square
2x0,5	HI 2x	square
2x0,75		
2x1		
2x1,5		
2x2,5		

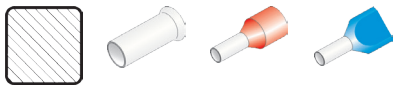
Professional crimping tool, PZP 16 S/2,5-16

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals with rectilinear die movement, precise dies included
- one crimping socket for entire cable range; “square” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP 16 S/2,5-16
Weight [kg]	0,3

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	195

CRIMPING

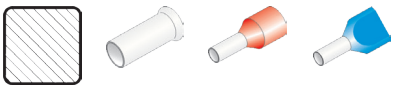
Cable cross-section [mm²]	Terminal group	Crimping shape
2,5-16	H...ERHN, HI...ERHL	square
2x2,5	HI 2x	square
2x4		
2x6		

Professional crimping tool, PZP 16R/0,08-16

FEATURES & BENEFITS

- ☑ professional crimping tool for cord end terminals with circumferential die movement
- ☑ one crimping socket for entire cable range; “square” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP 16R/0,08-16
Weight [kg]	0,38

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	180

CRIMPING

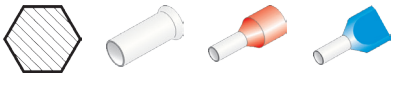
Cable cross-section [mm²]	Terminal group	Crimping shape
0,08-16	H...ERHN, HI...ERHL	square
2x0,5	HI 2x	square
2x0,75		
2x1		
2x1,5		
2x2,5		

Professional crimping tool, PZP 10R/6KT/0,08-10

FEATURES & BENEFITS

- ☑ professional crimping tool for cord end terminals with circumferential die movement
- ☑ one crimping socket for entire cable range; “hexagon” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP 10R/6KT/0,08-10
Weight [kg]	0,38

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	180

CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
0,08-10	H...ERHN, HI...ERHL	hexagon
2x0,5	HI 2x	hexagon
2x0,75		
2x1		
2x1,5		
2x2,5		

Professional crimping tool, PZP 16RL/6KT/0,08-16

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals with circumferential die movement
- one crimping socket for entire cable range; “hexagon” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with terminal positioner adjustable within 0,08 - 4 mm² range





LOGISTIC DATA

Type	PZP 16RL/6KT/0,08-16
Weight [kg]	0,5

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	213

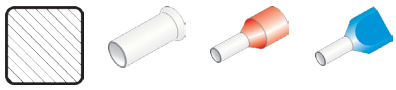
CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
0,08-16	H...ERHN, HI...ERHL	hexagon
2x0,5	HI 2x	hexagon
2x0,75		
2x1		
2x1,5		
2x2,5		
2x4		
2x6		

Professional crimping tool, PZP 6 C/0,25-6

P Tools Professional





FEATURES & BENEFITS

- ☑ professional crimping tool - cord end terminals mounted on tool face
- ☑ one crimping socket for entire cable range; “square” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results

LOGISTIC DATA

Type	PZP 6 C/0,25-6
Weight [kg]	0,42

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	190

CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
0,25-6	H...ERHN, HI...ERHL	square
2x0,5	HI 2x	square
2x0,75		
2x1		
2x1,5		
2x2,5		

Professional crimping tool, PZP 6 H/0,14-6

P Tools Professional





FEATURES & BENEFITS

- ☑ professional crimping tool for cord end terminals with precise dies - cord end terminals mounted on tool face
- ☑ one crimping socket for entire cable range; “trapeze” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results

LOGISTIC DATA

Type	PZP 6 H/0,14-6 (PZ6H/0,14-6)
Weight [kg]	0,5

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	220

CRIMPING

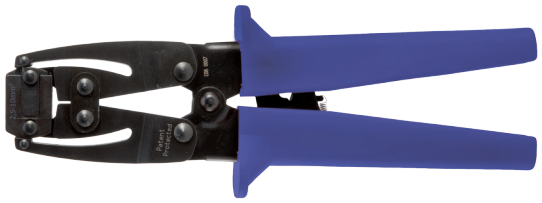
Cable cross-section [mm²]	Terminal group	Crimping shape
0,14-6	H...ERHN, HI...ERHL	trapezoid
2x0,5	HI 2x	trapezoid
2x0,75		
2x1		
2x1,5		
2x2,5		

Professional crimping tool, PZP 10 H/2,5-10

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals with precise dies - cord end terminals mounted on tool face
- one crimping socket for entire cable range; “trapeze” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP10 H/2,5-10 (PZ10H/2,5-10)
Weight [kg]	0,5

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	220

CRIMPING

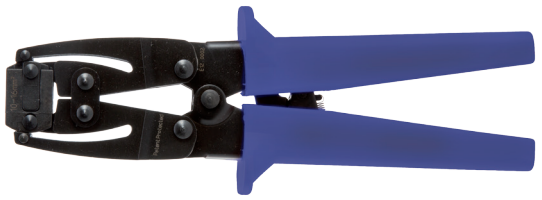
Cable cross-section [mm²]	Terminal group	Crimping shape
2,5-10	H...ERHN, HI...ERHL	trapezoid
2x2,5	HI 2x	trapezoid

Professional crimping tool, PZP 16 H/10-16

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for cord end terminals with precise dies - cord end terminals mounted on tool face
- one crimping socket for entire cable range; “trapeze” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	PZP16 H/10-16 (PZ16H/10-16)
Weight [kg]	0,5

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	220

CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
10-16	H...ERHN, HI...ERHL	trapezoid
2x6	HI 2x	trapezoid

Crimping tool, PZ /0,5-2,5



FEATURES & BENEFITS

- very popular and reliable crimping tool for “trapeze” crimping of cord end terminals
- one-handed tool operation with decoupling spring
- low-cost version



LOGISTIC DATA

Type	PZ/0,5-2,5
Weight [kg]	0,16

MECHANICAL DATA

Length [mm]	150

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,25	H...ERHN, HI...ERHL	trapezoid
2	0,5		
3	0,75		
4	1		
5	1,5		
6	2,5		

Crimping tool, PZ /1,5-6



FEATURES & BENEFITS

- popular and reliable crimping tool for “notched” crimping of cord end terminals
- one-handed tool operation with decoupling spring
- low-cost version



LOGISTIC DATA

Type	PZ/1,5-6
Weight [kg]	0,16

MECHANICAL DATA

Length [mm]	150

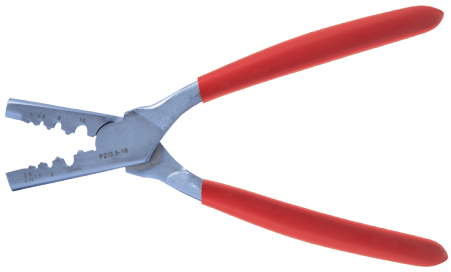
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	1,5	H...ERHN, HI...ERHL	indent
2	2,5		
3	4		
4	6		

Crimping tool, PZ /0,5-16

FEATURES & BENEFITS

- popular and reliable crimping tool for “notched” crimping of cord end terminals
- one-handed tool operation
- low-cost version





LOGISTIC DATA

Type	PZ/0,5-16
Weight [kg]	0,25

MECHANICAL DATA

Length [mm]	220

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	H...ERHN, HI...ERHL	indent
2	1,5-2,5		
3	4-6		
4	10		
5	16		

Crimping tool, PZ /10-35

FEATURES & BENEFITS

- crimping tool for “notched” crimping of cord end terminals
- one-handed tool operation
- low-cost version





LOGISTIC DATA

Type	PZ/10-35
Weight [kg]	0,31

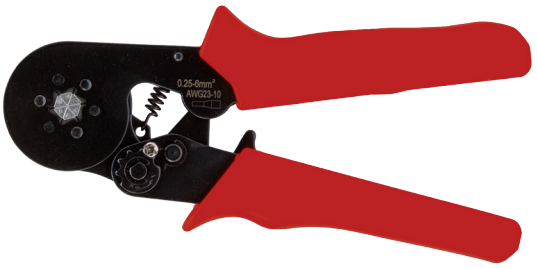
MECHANICAL DATA

Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	H...ERHN, HI...ERHL	indent
2	16		
3	25		
4	35		

Crimping tool, PZ 6 R/6KT / 0,25-6





FEATURES & BENEFITS

- practical tool with circumferential die movement for “hexagon” crimping of cord end terminals
- one crimping socket for entire cable range
- ratched mechanism ensures repeatability of terminal crimping results

LOGISTIC DATA

Type	PZ 6 R/6KT / 0,25-6
Weight [kg]	0,35

MECHANICAL DATA

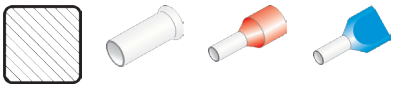
Length [mm]	175

CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
0,25-6	H...ERHN, HI...ERHL	hexagon
2x0,5	HI 2x	hexagon
2x0,75		
2x1		
2x1,5		
2x2,5		

Crimping tool, PZ 10 R /0,75-10





FEATURES & BENEFITS

- practical tool with circumferential die movement for “square” crimping of cord end terminals
- one crimping socket for entire cable range
- ratched mechanism ensures repeatability of terminal crimping results

LOGISTIC DATA

Type	PZ10R/0,75-10
Weight [kg]	0,3

MECHANICAL DATA

Length [mm]	180

CRIMPING

Cable cross-section [mm²]	Terminal group	Crimping shape
0,75-10	H...ERHN, HI...ERHL	square
2x0,5	HI 2x	square
2x0,75		
2x1		
2x1,5		
2x2,5		

Crimping tool, PZ 4 /0,5-6





FEATURES & BENEFITS

- very popular crimping tool for “trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results

LOGISTIC DATA

Type	PZ4/0,5-6
Weight [kg]	0,4

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	205

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-0,75	H...ERHN, HI...ERHL	trapezoid
2	1-1,5		
3	2,5		
4	4		
5	6		

Crimping tool, PZ 16 /6-16





FEATURES & BENEFITS

- very popular crimping tool for “trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results

LOGISTIC DATA

Type	PZ16/6-16/
Weight [kg]	0,4

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	205

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	H...ERHN, HI...ERHL	trapezoid
2	10		
3	16		

Crimping tool, PZ 35 /10-35

FEATURES & BENEFITS

- crimping tool for “trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results



LOGISTIC DATA

Type	PZ35/10-35/
Weight [kg]	0,6



MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	H...ERHN, HI...ERHL	trapezoid
2	16		
3	25		
4	35		

Crimping tool, PZ 50 /25-50

FEATURES & BENEFITS

- crimping tool for “toothed trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results



LOGISTIC DATA

Type	PZ50/25-50/
Weight [kg]	0,6



MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	25	H...ERHN, HI...ERHL	trapezoid with fangs
2	35		
3	50		

Crimping tool, PZ35H/10-35

FEATURES & BENEFITS

- crimping tool for “trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results
- two-handed operation required





LOGISTIC DATA

Type	PZ35H/10-35
Weight [kg]	0,6

MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	300

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	H...ERHN, HI...ERHL	trapezoid
2	16		
3	25		
4	35		

Crimping tool, PZ50H/25-50

FEATURES & BENEFITS

- crimping tool for “toothed trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results
- two-handed operation required





LOGISTIC DATA

Type	PZ50H/25-50
Weight [kg]	0,68

MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	300

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	H...ERHN, HI...ERHL	trapezoid with fangs
2	35		
3	16		
4	50		
5	25		

Crimping tool, PZ95H/50-95

FEATURES & BENEFITS

- crimping tool for “toothed trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results
- two-handed operation required





LOGISTIC DATA

Type	PZ95H/50-95
Weight [kg]	0,75

MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	330

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	50	H...ERHN, HI...ERHL	trapezoid with fangs
2	70		
3	95		

Crimping tool, PZ150H/120-150

FEATURES & BENEFITS

- crimping tool for “toothed trapeze” crimping of cord end terminals
- separate crimping sockets for each cross-section
- ratched mechanism ensures repeatability of terminal crimping results
- two-handed operation required





LOGISTIC DATA

Type	PZ150H/120-150
Weight [kg]	0,95

MECHANICAL DATA

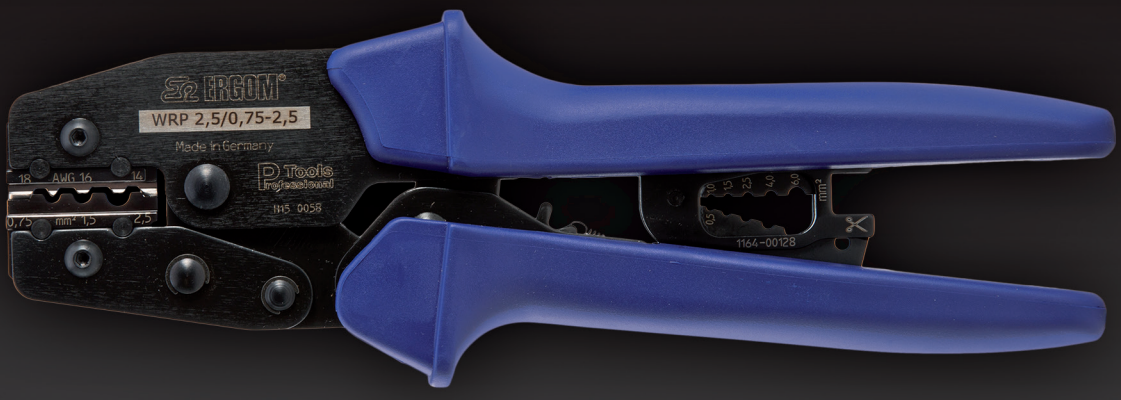
Mechanism type	Two-handed control
Length [mm]	380

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	120	H...ERHN, HI... ERHL	trapezoid with fangs
2	150		

ERGOM®





Crimping tools for uninsulated terminals

Crimping tools for uninsulated terminals

Professional crimping tool, WZP 10/0,1-10	323
Professional crimping tool, WZP 10W/0,5-6	324
Professional crimping tool, WRP 2,5/0,75-2,5	325
Professional crimping tool, WRP 10/4-10	326
Professional crimping tool, WRP 16/10-16	326
Crimping tool, WZ 10 /1-6	327
Crimping tool, WZ 6-25	327
Crimping tool, K05/6-50	328
Crimping tool, K06/50-120	329
Crimping tool, K07/120-240	330

Professional crimping tool, WZP 10/0,1-10

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool for uninsulated terminals, precise dies included
- separate crimping sockets for each cross-section; “double notch” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with simple wire stripper and cutter





LOGISTIC DATA

Type	WZP 10/0,1-10
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-2,5	KO, KW, KI	indent
2	4-6		
3	10		
4	0,1-0,5		

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, WZP 10W/0,5-6

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool for uninsulated terminals, precise dies included
- separate crimping sockets for each cross-section; “double notch” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with simple wire stripper and cutter





LOGISTIC DATA

Type	WZP 10W/0,5-6
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,25-1,5	KO, KW, KI	double notch
2	1-2,5		
3	2,5-6		

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, WRP 2,5/0,75-2,5

P Tools Professional

FEATURES & BENEFITS

- ☑ professional crimping tool for uninsulated terminals, precise dies included
- ☑ separate crimping sockets for each cross-section; “notched” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results
- ☑ equipped with simple wire stripper and cutter





LOGISTIC DATA

Type	WRP 2,5/0,75-2,5
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,75	Standard Cu	indent
2	1,5		
3	2,5		

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, WRP 10/4-10

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for uninsulated terminals, precise dies included
- separate crimping sockets for each cross-section; “double notch” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	WRP 10/4-10
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	4	Standard Cu	double notch
2	6		
3	10		

Professional crimping tool, WRP 16/10-16

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for uninsulated terminals, precise dies included
- separate crimping sockets for each cross-section; “double notch” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	WRP 16/10-16
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	Standard Cu	double notch
2	16		

Crimping tool, WZ 10 /1-6

FEATURES & BENEFITS

- popular crimping tool for uninsulated terminals
- separate crimping sockets for each cross-section; “notched” and “double notch” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results







LOGISTIC DATA

Type	WZ 10/1-6
Weight [kg]	0,6

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	1-1,5	KO, KW, KI, KOR, KL	indent
2	2,5	KO, KW, KI, KOR, KL	double notch
3	4-6		

Crimping tool, WZ 6-25

FEATURES & BENEFITS

- crimping tool for uninsulated terminals
- separate crimping sockets for each cross-section; “notched” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- two-handed operation required





LOGISTIC DATA

Type	WZ 6-25
Weight [kg]	0,22

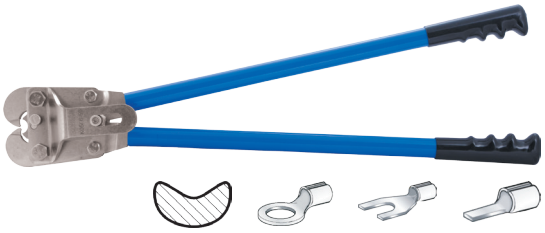
MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	354

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	KO, KW, KI	indent
2	10		
3	16	KO, KW, KI, KL	indent
4	25	KO, KW, KI	indent

Crimping tool, K05/6-50



FEATURES & BENEFITS

- crimping tool for uninsulated terminals
- one crimping socket for entire cable range; “double notch” crimping shape
- rotary crimping die ensures fast and easy cross-section change
- two-handed operation required

LOGISTIC DATA

Type	K05/6-50
Weight [kg]	2,4

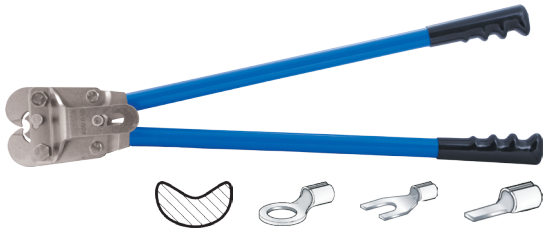
MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	600

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	KO, KW, KI	double notch
2	10		
3	16		
4	25		
5	35		
6	50		

Crimping tool, K06/50-120



FEATURES & BENEFITS

- crimping tool for uninsulated terminals
- one crimping socket for entire cable range; “double notch” crimping shape
- rotary crimping die ensures fast and easy cross-section change
- two-handed operation required

LOGISTIC DATA

Type	K06/50-120
Weight [kg]	4,7

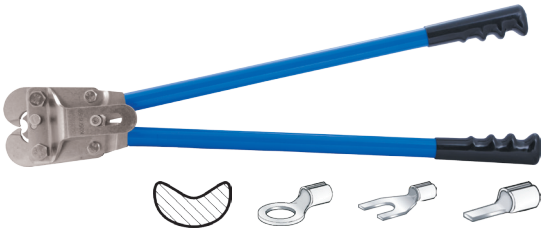
MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	980

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	50	KO, KW, KI	double notch
2	70		
3	95		
4	120		

Crimping tool, K0 7 /120-240



FEATURES & BENEFITS

- crimping tool for uninsulated terminals
- one crimping socket for entire cable range; “double notch” crimping shape
- rotary crimping die ensures fast and easy cross-section change
- two-handed operation required

LOGISTIC DATA

Type	K07/120-240
Weight [kg]	4,7

MECHANICAL DATA

Mechanism type	Two-handed control
Length [mm]	980

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	120	KO, KW, KI	double notch
2	150		
3	185		
4	240		

ERGOM®





Crimping tools for insulated terminals

Crimping tools for insulated terminals

Professional crimping tool, WZP 6I/0,5-6	333
Professional crimping tool, WZP 6IT/0,35-6	334
Crimping tool, WZ 10 I/1-6	335
Crimping tool, WZ 16 I/10-16	336

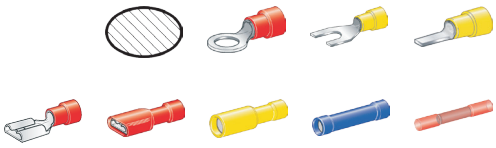
Professional crimping tool, WZP 6I/0,5-6

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool for insulated terminals, precise dies included
- separate crimping sockets for each cross-section; “oval” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with simple wire stripper and cutter





LOGISTIC DATA

Type	WZP 6I/0,5-6
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1,5	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
2	1-2,5		
3	4-6		

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, WZP 6IT/0,35-6

Tools Professional

FEATURES & BENEFITS

- professional crimping tool for terminals in heat-shrink insulation, precise dies included
- separate crimping sockets for each cross-section; “oval” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with simple wire stripper and cutter





LOGISTIC DATA

Type	WZP 6IT/0,35-6
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,35-0,5	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (HEAT-SHRINK)	oval
2	4-6		
3	0,5-2,5		

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

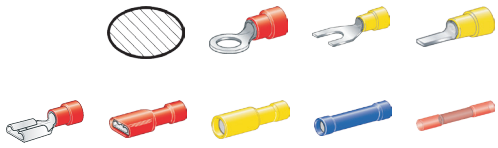
CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Crimping tool, WZ 10 I/1-6

FEATURES & BENEFITS

- popular crimping tool for insulated terminals
- separate crimping sockets for each cross-section; “oval” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	WZ 10I/1-6
Weight [kg]	0,6

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

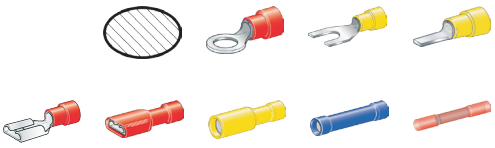
Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	1	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
2	1,5-2,5		
3	4-6		

Crimping tool, WZ 16 I/10-16

FEATURES & BENEFITS

- popular crimping tool for insulated terminals
- separate crimping sockets for each cross-section; “oval” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	WZ 16I/10-16
Weight [kg]	0,6

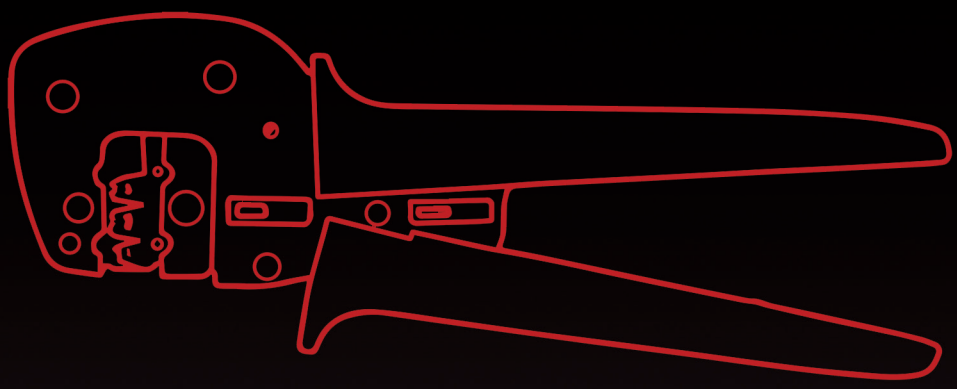
MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
2	16		

ERGOM®





Crimping tools for connectors

Crimping tools for connectors

Professional crimping tool, WZP 2,8/0,1-1	339
Professional crimping tool, WZP 4,8/0,5-2,5	339
Professional crimping tool, WZP 6,3/0,5-2,5	340
Professional crimping tool, WZP 2,8-6,3 B/0,5-6	341
Professional crimping tool, WZP 2,8-6,3 O/0,5-6	342
Professional crimping tool, WZP 2,8 P/0,1-1	343
Professional crimping tool, WZP 4,8 P/0,5-2,5	343
Professional crimping tool, WZP 6,3 P/0,5-6	344
Crimping tool, WZ 6,3 /1,5-6	344

Professional crimping tool, WZP 2,8/0,1-1

P Tools Professional

FEATURES & BENEFITS

- ☑ professional crimping tool with precise dies for connectors; separate socket for each cross-section
- ☑ rectilinear die movement ensures very good crimping quality and “wrapped” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results
- ☑ for 2,8 mm connectors





LOGISTIC DATA

Type	WZP 2,8/0,1-1 (WZ 65H/0,1-1)
Weight [kg]	0,3

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	200

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,1-0,25	N, W, MO (2,8)	wrap
2	0,25-0,5		
3	0,5-1		

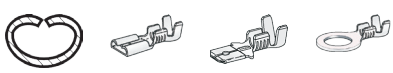
Professional crimping tool, WZP 4,8/0,5-2,5

P Tools Professional

FEATURES & BENEFITS

- ☑ professional crimping tool with precise dies for connectors; separate socket for each cross-section
- ☑ rectilinear die movement ensures very good crimping quality and “wrapped” crimping shape
- ☑ ratched mechanism ensures repeatability of terminal crimping results
- ☑ for 4,8 mm connectors





LOGISTIC DATA

Type	WZP 4,8/0,5-2,5 (WZ 66H/0,5-2,5)
Weight [kg]	0,3

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	200

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	N, W, MO (4,8)	wrap
2	1,5-2,5		

Professional crimping tool, WZP 6,3/0,5-2,5

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool with precise dies for connectors; separate socket for each cross-section
- rectilinear die movement ensures very good crimping quality and “wrapped” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- for 6,3 mm connectors





LOGISTIC DATA

Type	WZP 6,3/0,5-2,5 (WZ 67H/0,5-2,5)
Weight [kg]	0,3

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	200

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	N, W, MO (6,3)	wrap
2	1,5-2,5		

Professional crimping tool, WZP 2,8-6,3 B/0,5-6

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool with precise dies for connectors; separate socket for each cross-section; comes with simple stripper and cutter
- crimping “wrapped” over insulation and cable conductor
- ratched mechanism ensures repeatability of terminal crimping results
- for 2,8, 4,8, 6,3 mm connectors





LOGISTIC DATA

Type	WZP 2,8-6,3 B/0,5-6
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	N, W, MO (4,8-6,3)	wrap
2	1,5-2,5		
3	4-6		
4	0,5-1	N, W, MO (2,8)	wrap

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, WZP 2,8-6,3 O/0,5-6

P Tools Professional

FEATURES & BENEFITS

- ☑ professional crimping tool with precise dies for connectors; separate socket for each cross-section; comes with simple stripper and cutter
- ☑ crimping “wrapped” over cable conductor, “O-crimp” over insulation
- ☑ ratched mechanism ensures repeatability of terminal crimping results
- ☑ for 2,8, 4,8, 6,3 mm connectors





LOGISTIC DATA

Type	WZP 2,8-6,3 O/0,5-6
Weight [kg]	0,55

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	N, W, MO (4,8-6,3)	wrap
2	1,5-25		
3	4-6		
4	0,5-1	N, W, MO (2,8)	wrap

REMOVING INSULATION

Socket code no.	Diameter [mm]	Cable type
1	0,5	Multi-wire flexible conductors
2	1,0	
3	1,5	
4	2,5	
5	4,0	
6	6,0	

CUTTING OFF	Max. diameter of cut off cable [mm]
Multi-wire flexible conductors	4

Professional crimping tool, WZP 2,8 P/0,1-1

Tools Professional

FEATURES & BENEFITS

- professional crimping tool with precise dies for connectors; separate socket for each cross-section
- rectilinear die movement ensures very good crimping quality and “wrapped” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with positioner for precise positioning of 2,8 mm connectors





LOGISTIC DATA

Type	WZP 2,8 P/0,1-1
Weight [kg]	0,65

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	220

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,1-0,25	N, W, MO (2,8)	wrap
2	0,25-0,5		
3	0,5-1		

Professional crimping tool, WZP 4,8 P/0,5-2,5

Tools Professional

FEATURES & BENEFITS

- professional crimping tool with precise dies for connectors; separate socket for each cross-section
- rectilinear die movement ensures very good crimping quality and “wrapped” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with positioner for precise positioning of 4,8 mm connectors





LOGISTIC DATA

Type	WZP 4,8 P/0,5-2,5
Weight [kg]	0,65

MECHANICAL DATA

Mechanism type	Standard

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	N, W, MO (4,8)	wrap
2	1,5		
3	2,5		

Professional crimping tool, WZP 6,3 P/0,5-6

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool with precise dies for connectors; separate socket for each cross-section
- rectilinear die movement ensures very good crimping quality and “wrapped” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results
- equipped with positioner for precise positioning of 6,3 mm connectors





LOGISTIC DATA

Type	WZP 6,3 P/0,5-6
Weight [kg]	0,65

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	220

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	0,5-1	N, W, MO (6,3)	wrap
2	4-6		
3	1,5-2,5		

Crimping tool, WZ 6,3 /1,5-6

FEATURES & BENEFITS

- popular crimping tool for 6,3 size connectors
- separate crimping sockets for each cross-section; “wrapped” crimping shape
- ratched mechanism ensures repeatability of terminal crimping results





LOGISTIC DATA

Type	WZ 6,3/1,5-6
Weight [kg]	0,6

MECHANICAL DATA

Mechanism type	Standard
Length [mm]	225

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	1,5	N, W, MO (6,3)	wrap
2	2,5		
3	6		

ERGOM®





Sets - crimping tools with replaceable dies

WZ set – crimping tool with replaceable dies

FEATURES & BENEFITS

- drive of crimping tool with replaceable crimping dies - 5 pieces
- crimping shape: “trapeze”, “notch”, “oval” and “wrapped”, depending on terminal type
- plastic suitcase included
- popular, low-cost and practical servicing solution



LOGISTIC DATA

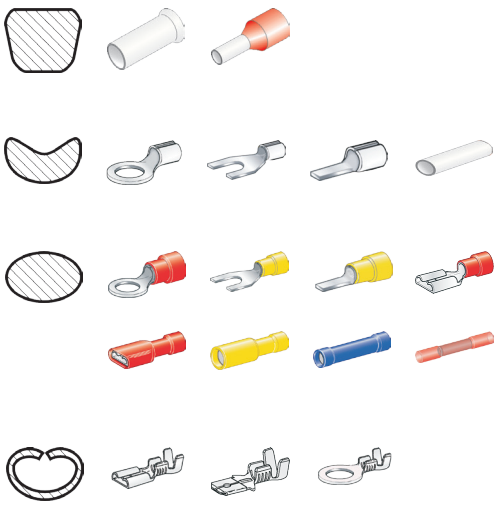
Type	WZ
Weight [kg]	1,1

MECHANICAL DATA

Mechanism type	Standard

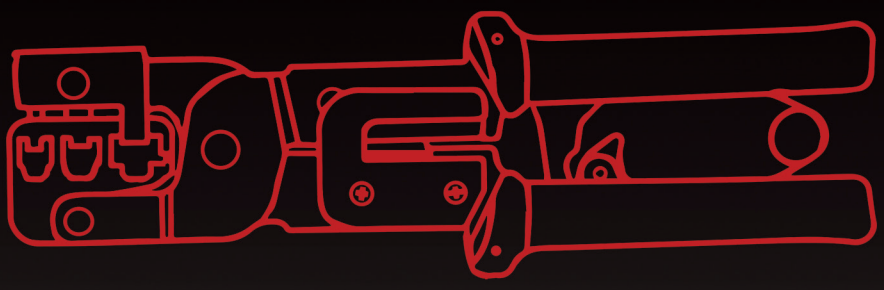
CRIMPING

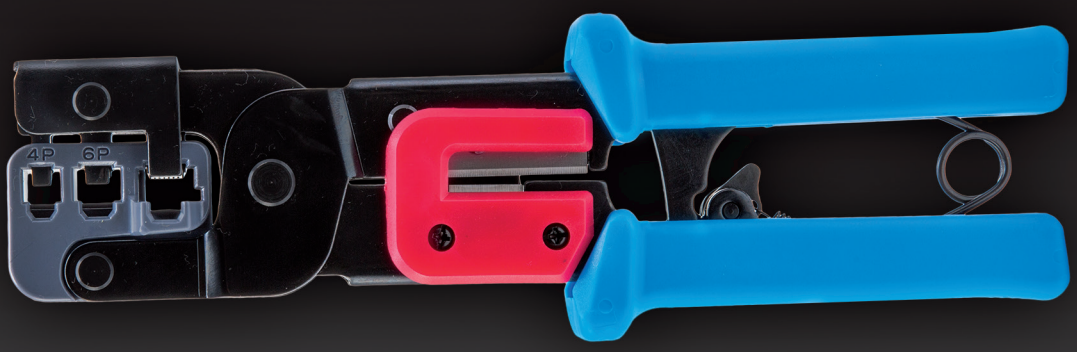
Die	Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
I	1	0,5	H...ERHN, HI...ERHL	trapezoid
	2	0,75		
	3	1		
	4	1,5		
	5	2,5		
	6	4		
II	1	6	H...ERHN, HI...ERHL	trapezoid
	2	10		
	3	16		
III	1	1	KO, KW, KI, KOR, KL	indent
	2	1,5-2,5		
	3	4		
	4	6-10		
IV	1	1	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
	2	1,5-2,5		
	3	4-6		
V	1	0,5-1	N, W, MO	wrap
	2	1,5-2,5		
	3	4-6		



SET CONTAINS	Quantity included [pcs.]	Comment
Drive	1	-
I	1	Die
II	1	Die
III	1	Die
IV	1	Die
V	1	Die
Plastic case	1	-

ERGOM®





Crimping tools for Western plugs

Crimping tool for Western plugs, PZT 4-6-8

FEATURES & BENEFITS

- crimping tool for telecommunication cables with simple wire stripper and cutter for multi-wire telephone cables



LOGISTIC DATA

Type	PZT 4/6/8
Weight [kg]	0,55

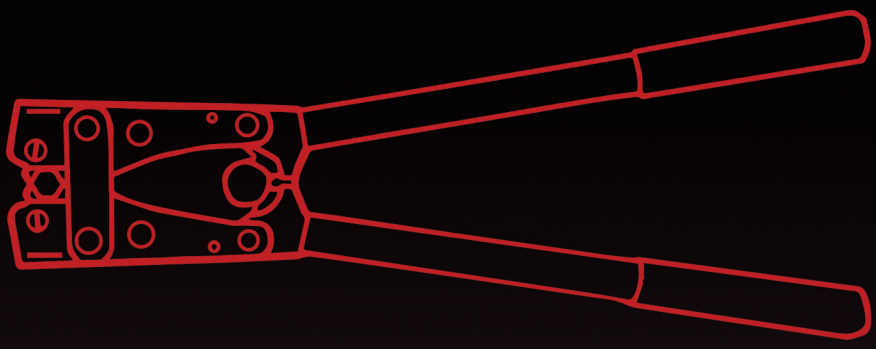
MECHANICAL DATA

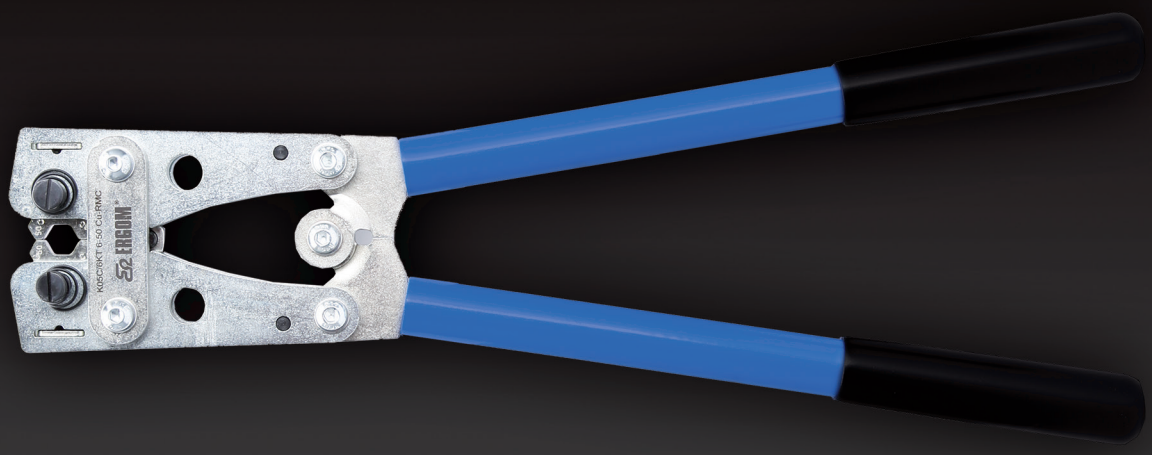
Length [mm]	200

CRIMPING

Socket code no.	Terminal group
1	4P4C (RJ22), 4P2C (RJ9)
2	6P4C (RJ11), 6P6C (RJ12)
3	8P8C (RJ45)

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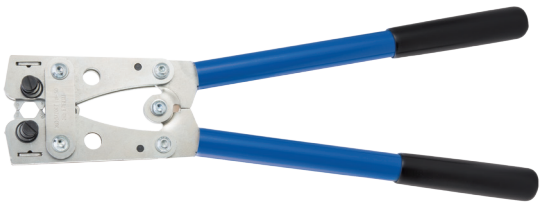


Manual crimping tools with rotating dies

Manual crimping tools with rotating dies

Crimping tool, K05/6KT/6-50/	351
Crimping tool, K06/6KT/6-120/	351
Crimping tool, K06F/6KT/16-150/	352
Crimping tool, K05C/6KT/6-50/Cu-RMC	352
Crimping tool, K06C/6KT/6-120/Cu-RMC	353
Crimping tool, K06E/6KT/10-120	354
Crimping tool, K06/6KT/16-120/AL-C	354
Crimping tool, K06F/6KT/25-150/AL-C	355
Crimping tool, KD5/6KT/6-50/	355
Crimping tool, KD6/6KT/6-120/	356
Crimping tool, KD6F/6KT/16-150/	357
Crimping tool, KD6/6KT/10-120/AL	358

Crimping tool, K05/6KT/6-50/





FEATURES & BENEFITS

- popular crimping tool for Cu standard tubular terminals
- rotary die ensures fast and easy cross-section change

LOGISTIC DATA

Type	K05/6KT/6-50/
Weight [kg]	1,4

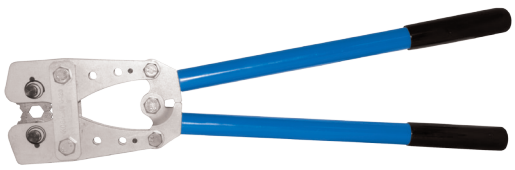
MECHANICAL DATA

Length [mm]	390

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	Standard Cu	hexagon
2	10		
3	16		
4	25		
5	35		
6	50		

Crimping tool, K06/6KT/6-120/





FEATURES & BENEFITS

- popular crimping tool for Cu standard tubular terminals
- rotary die ensures fast and easy cross-section change

LOGISTIC DATA

Type	K06/6KT/6-120/
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

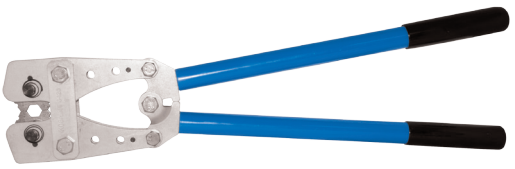
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	Standard Cu	hexagon
2	10		
3	16		
4	25		
5	35		
6	50		
7	70		
8	95		
9	120		

Crimping tool, K06F/6KT/16-150/

FEATURES & BENEFITS

- popular crimping tool for Cu standard tubular terminals
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	K06F/6KT/16-150/
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

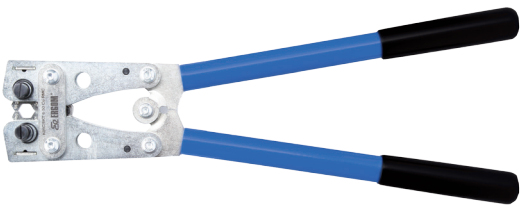
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	16	Standard Cu	hexagon
2	25		
3	35		
4	50		
5	70		
6	95		
7	120		
8	150		

Crimping tool, K05C/6KT/6-50/Cu-RMC

FEATURES & BENEFITS

- popular crimping tool for Cu compressed tubular terminals, e.g. CKOR, CKL
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	K05C/6KT/6-50/Cu-RMC
Weight [kg]	1,4

MECHANICAL DATA

Length [mm]	390

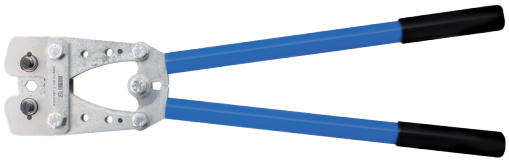
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	CKOR, CKL	hexagon
2	10		
3	16		
4	25		
5	35		
6	50		

Crimping tool, K06C/6KT/6-120/Cu-RMC

FEATURES & BENEFITS

- popular crimping tool for Cu compressed tubular terminals, e.g. CKOR, CKL
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	K06C/6KT/6-120/Cu-RMC
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

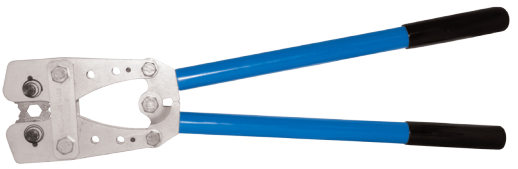
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	CKOR, CKL	hexagon
2	10		
3	16		
4	25		
5	35		
6	50		
7	70		
8	95		
9	120		
9	120	Cu EKO - KREo, LE	hexagon

Crimping tool, K06E/6KT/10-120

FEATURES & BENEFITS

- ☑ popular crimping tool for Cu EKO tubular terminals
- ☑ rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	K06E/6KT/10-120
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

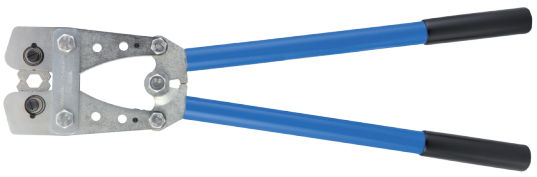
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	Cu EKO - KREo, LE	hexagon
2	16		
3	25		
4	35		
5	50		
6	70		
7	95		
8	120		

Crimping tool, K06/6KT/16-120/AL-C

FEATURES & BENEFITS

- ☑ popular crimping tool for thin-walled Al DIN tubular terminals
- ☑ rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	K06/6KT/16-120/AL-C
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

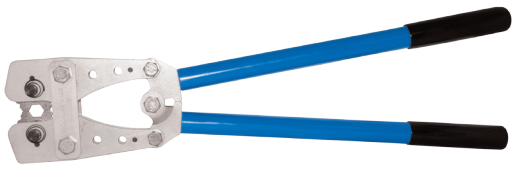
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	16	Al-c	hexagon
2	25		
3	35		
4	50		
5	70		
6	95		
7	120		

Crimping tool, K06F/6KT/25-150/AL-C

FEATURES & BENEFITS

- popular crimping tool for thin-walled Al DIN tubular terminals
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	K06F/6KT/25-150/AL-C
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

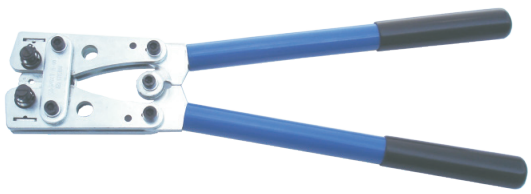
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	25	Al-c	hexagon
2	35		
3	50		
4	70		
5	95		
6	120		
7	150		

Crimping tool, KD5/6KT/6-50/

FEATURES & BENEFITS

- popular crimping tool for Cu DIN tubular terminals
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	KD5/6KT/6-50/
Weight [kg]	1,4

MECHANICAL DATA

Length [mm]	390

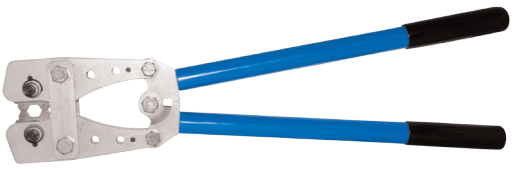
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	Cu DIN	hexagon
2	10		
3	16		
4	25		
5	35		
6	50		

Crimping tool, KD6/6KT/6-120/

FEATURES & BENEFITS

- popular crimping tool for Cu DIN tubular terminals
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	KD6/6KT/6-120/
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	6	Cu DIN	hexagon
2	10		
3	16		
4	25		
5	35		
6	50		
7	70		
8	95		
9	120		

Crimping tool, KD6F/6KT/16-150/

FEATURES & BENEFITS

- popular crimping tool for Cu DIN tubular terminals



LOGISTIC DATA

Type	KD6F/6KT/16-150/
Weight [kg]	4,5

MECHANICAL DATA

Length [mm]	650



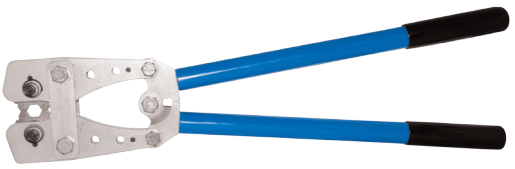
CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	16	Cu DIN	hexagon
2	25		
3	35		
4	50		
5	70		
6	95		
7	120		
8	150		

Crimping tool, KD6/6KT/10-120/AL

FEATURES & BENEFITS

- popular crimping tool for Al DIN tubular terminals
- rotary die ensures fast and easy cross-section change





LOGISTIC DATA

Type	KD6/6KT/10-120/AL
Weight [kg]	4,5

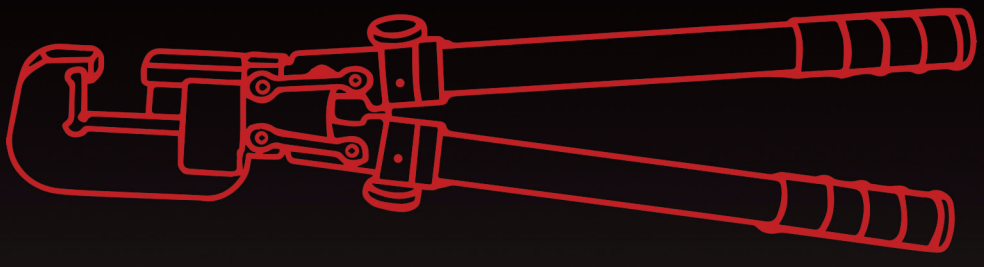
MECHANICAL DATA

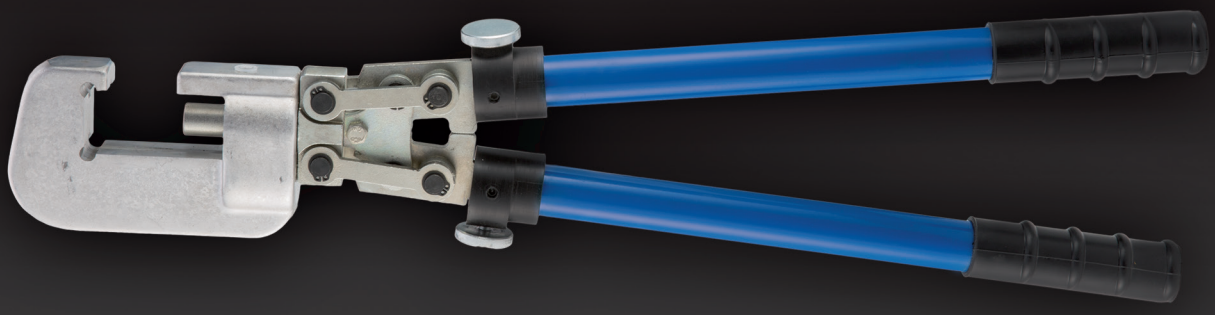
Length [mm]	650

CRIMPING

Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
1	10	Al DIN	hexagon
2	16		
3	25		
4	35		
5	50		
6	70		
7	95		
8	120		

ERGOM®





Manual crimping tools with replaceable dies

Crimping tool, EK 22



FEATURES & BENEFITS

- popular manual crimping tool for for replaceable crimping dies
- crimping dies for system 22 – to crimp all types of tubular cable terminals delivered separately
- tool grip length adjustment reduces force necessary to crimp terminals
- rotary working head – 360°

LOGISTIC DATA

Type	EK22
Weight [kg]	2,9

MECHANICAL DATA

Length [mm]	600-900

NOTE!

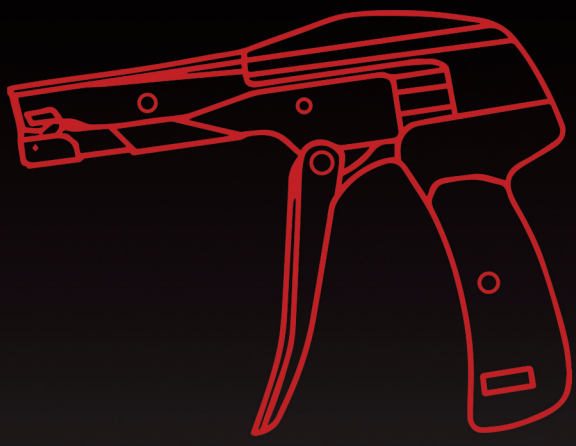
Our assortment includes die sets (chapter “Dies”) and metal tool boxes.

Crimping tool in a set with dies available at www.ergom.com.

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-185	hexagon
Al-Cu	10-185	hexagon
Al-c	16-240	hexagon
Al-g	16-185	hexagon
Cu DIN	6-240	hexagon
Cu EKO - KREo, LE	10-95	hexagon
H...ERHN, HI...ERHL	10-185	trapezoid
HI 2x	6-16	trapezoid
KO, KW, KI, KOR, KL	10-120	indent
MJPB	16-35	hexagon
MJPT	16-120	hexagon
Standard Cu	10-300	hexagon
ZLA	16-95	crimping
se	35-300	round forming
sm	10-300	round forming

ERGOM®





Tools for cable ties

Tools for cable ties

Cable tie gun, MK III PR	363
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Cable tie gun, MK III PR



FEATURES & BENEFITS

- plastic cable tie pull-on tool
- precisely adjustable tensioning force
- built-in tape cutter

LOGISTIC DATA

Type	MK III PR
Weight [kg]	0,3

MECHANICAL DATA

Max. tape width or range [mm]	2,2÷4,8

DIMENSIONS

Length [mm]	160

Cable tie gun, MK III A



FEATURES & BENEFITS

- popular and low-cost tool for pulling on plastic cable ties
- adjustable tensioning force
- built-in tape cutter

LOGISTIC DATA

Type	MK III A
Weight [kg]	0,21

MECHANICAL DATA

Max. tape width or range [mm]	2,2÷4,8

DIMENSIONS

Length [mm]	165

Cable tie gun, MK III B



FEATURES & BENEFITS

- ☑ popular and low-cost tool for pulling on plastic cable ties
- ☑ built-in tape cutter

LOGISTIC DATA

Type	MK III B
Weight [kg]	0,32

MECHANICAL DATA

Max. tape width or range [mm]	3,6÷9,0

DIMENSIONS

Length [mm]	195

Cable tie gun, MK III C



FEATURES & BENEFITS

- ☑ popular and low-cost tool for pulling on wide plastic cable ties
- ☑ adjustable tensioning force
- ☑ built-in tape cutter

LOGISTIC DATA

Type	MK III C
Weight [kg]	0,32

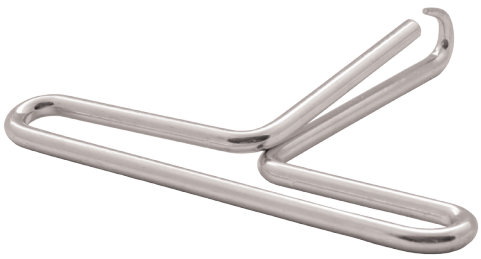
MECHANICAL DATA

Max. tape width or range [mm]	3,6÷13,0

DIMENSIONS

Length [mm]	200

MK-SB hook



FEATURES & BENEFITS

- ☑ tool for mounting packaged steel cable ties with holes

LOGISTIC DATA

Type	MK-SB
Weight [kg]	0,05

DIMENSIONS

Length [mm]	90

Cable tie gun, MK-SD 2

Tools Professional

FEATURES & BENEFITS

- professional hand-operated tool for serial tensioning to ties with ball locks, TSB
- adjustable tie tensioning and automatic cutting off its ends
- for 4,6 and 7,9 mm ties



LOGISTIC DATA

Type	MK-SD 2
Weight [kg]	0,56

MECHANICAL DATA

Max. tape width or range [mm]	7,9

DIMENSIONS

Length [mm]	178

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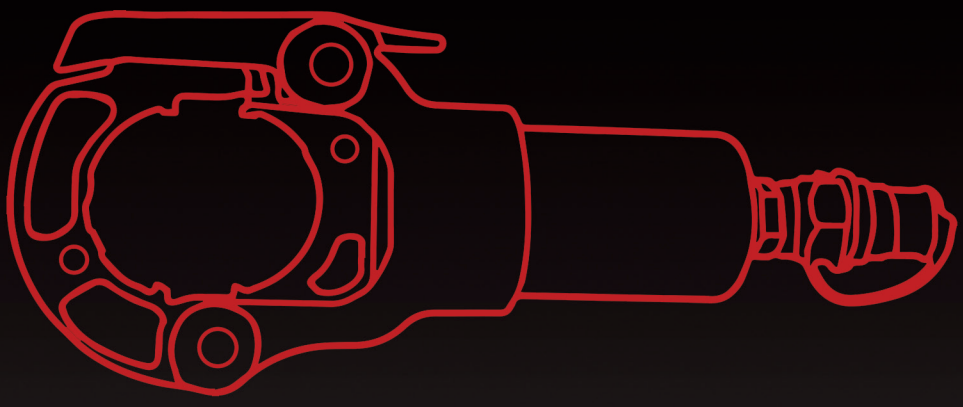


Hydraulic tools

Hydraulic tools

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Crimping tools and crimping heads

Crimping tools and crimping heads

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Battery-powered professional hydraulic crimping tool, HKP 22 EL

Tools Professional

FEATURES & BENEFITS

- professional crimping tool with replaceable dies for system 22
- rotary and opened working head facilitates side and front “entry” to crimping head
- two-stage hydraulic system with automatic piston return
- software for crimping operation analysis



CE

LOGISTIC DATA

Type	HKP 22 EL
Weight [kg]	4,2

Professional battery-powered crimping tool with in-built pressure source in a vertical layout. The tool comes with a working head for terminal crimping. Automatic piston return; manual return also possible. Comes with PC analytical software. Guaranteed 10 000 working cycles of the tool (service inspection required after this period).

MECHANICAL DATA

Drive	Battery, Li-Ion 14,4 V 2,6 Ah
Die type	KP22
Rotate head angle [deg.]	360
Crimping force [kN]	60
Crimping time [s]	3 ÷ 4
Length [mm]	480
Crimping range	6 ÷ 300

ELECTRICAL DATA

Battery charging time [min]	45
Number of crimps from one battery charge [pcs]	approx. 190 for 150 mm² Cu standard (approximate value depends on the type of wire and tip, ambient temperature, etc.)
Battery voltage [V]	14,4
Battery capacity [mAh]	2600

NOTE!

Continuous device operation ensured by the HKP - PA1 mains power supply.

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-240	hexagon
Al-Cu	10-240	hexagon
Al-c	16-240	hexagon
Al-g	16-185	hexagon
CKOR, CKL	10-240	hexagon
Cu DIN	6-240	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	10-300	hexagon
H...ERHN, HI...ERHL	10-185	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-95	indent
MJPB	16-35	hexagon
MJPT	16-120	hexagon
ZLA	16-95	crimping
se	35-300	round forming
sm	10-300	round forming

NOTE!

KP22 dies must be ordered separately - we recommend ordering a complete set.

SET CONTAINS	Quantity included [pcs.]	Comment
HKP 22 EL	1	-
HKP - BA1	2	Battery
HKP - CHA1	1	Charger
Metal case	1	-
Instruction manual	1	-
USB cable	1	-
PC software	1	-

Professional crimping head, GKP 22 type

Tools Professional

FEATURES & BENEFITS

- professional head with replaceable dies for system 22
- professional opened hydraulic crimping head driven by separate pump
- compact design facilitates crimping terminals in tight and limited spaces



CE

LOGISTIC DATA

Type	GKP 22
Weight [kg]	2,8

MECHANICAL DATA

Drive	external pressure source
Die type	KP22
Crimping force [kN]	60
Working pressure [MPa]	depending on the feed pump, max. 70
Length [mm]	200
Crimping range	6 ÷ 300

NOTE!

KP22 dies must be ordered separately - we recommend ordering a complete set.

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-240	hexagon
Al-Cu	10-240	hexagon
Al-c	16-240	hexagon
Al-g	16-185	hexagon
CKOR, CKL	10-240	hexagon
Cu DIN	6-240	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	10-300	hexagon
H...ERHN, HI...ERHL	10-185	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-95	indent
MJPB	16-35	hexagon
MJPT	16-120	hexagon
ZLA	16-95	crimping
se	35-300	round forming
sm	10-300	round forming

SET CONTAINS	Quantity included [pcs.]
GKP 22	1
Plastic case	1
Instruction manual	1

Professional hydraulic crimping tool, HKP 22

P Tools Professional

FEATURES & BENEFITS

- ☑ professional crimping tool with in-built pressure source
- ☑ replaceable dies for system 22
- ☑ rotary and opened working head facilitates side and front “entry” to crimping head
- ☑ two-stage hydraulic system; number of lever movements to crimp elements - 5



CE

LOGISTIC DATA

Type	HKP 22
Weight [kg]	3

MECHANICAL DATA

Drive	manual
Die type	KP22
Rotate head angle [deg.]	180
Crimping force [kN]	60
Length [mm]	415
Crimping range	6 ÷ 300

NOTE!

KP22 dies must be ordered separately - we recommend ordering a complete set.

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-240	hexagon
Al-Cu	10-240	hexagon
Al-c	16-240	hexagon
Al-g	16-185	hexagon
CKOR, CKL	10-240	hexagon
Cu DIN	6-240	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	10-300	hexagon
H...ERHN, HI...ERHL	10-185	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-95	indent
MJPB	16-35	hexagon
MJPT	16-120	hexagon
ZLA	16-95	crimping
se	35-300	round forming
sm	10-300	round forming

SET CONTAINS	Quantity included [pcs.]
HKP 22	1
Metal case	1
Instruction manual	1

Battery-powered professional hydraulic mini crimping tool, HKP 5 MEL

P Tools Professional

FEATURES & BENEFITS

- professional crimping tool with replaceable dies for system 5
- rotary and opened working head facilitates side and front “entry” to crimping head
- automatic return of the piston and two-stage hydraulic system
- software for crimping operation analysis



CE

LOGISTIC DATA

Type	HKP 5 MEL
Weight [kg]	2,3

Battery-powered professional hydraulic crimping tool with the built-in pressure source in the vertical configuration.
An automatic safety valve, „slowing down” the pressure after reaching the maximum level in the pump. A two-stage hydraulic system assuring quick stroke and slow working movement to use its full strength. A possibility to set the required pressure and the time of tightening and pressure release. Equipped with analytic PC software. Guaranteed 10 000 working cycles of the tool (a service inspection required after this period).

MECHANICAL DATA

Drive	Battery, Li-Ion 18 V 1,5 Ah
Die type	HK5
Rotate head angle [deg.]	360
Crimping force [kN]	50
Length [mm]	370
Crimping range	6 ÷ 300

ELECTRICAL DATA

Battery charging time [min]	30
Number of crimps from one battery charge [pcs]	approx. 170 for 150 mm² Cu standard (approximate value depends on the type of wire and tip, ambient temperature, etc.)
Battery voltage [V]	18
Battery capacity [mAh]	1500

NOTE!

Continuous device operation ensured by the MEL - HE3 - PA5 mains power supply.

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-150	hexagon
Al-c	16-185	hexagon
Al-g	16-120	hexagon
Cu DIN	6-185	hexagon
Cu EKO - KREo, LE	6-95	hexagon
Standard Cu	6-240	hexagon
H...ERHN, HI...ERHL	10-150	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-70	indent
KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	10-95	oval
ZLA	16-120	crimping
se	35-300	round forming
sm	10-240	round forming

NOTE!

HK5 dies must be ordered separately - we recommend ordering a complete set.

SET CONTAINS	Quantity included [pcs.]	Comment
HKP 5 MEL	1	-
MEL - BA5 - 1,5 Ah	1	Battery
MEL-HE3 - CHA5	1	Charger
Metal case	1	-
Instruction manual	1	-
USB cable	1	-
PC software	1	-

Battery-powered hydraulic crimping tool, HK 22 C MEL

FEATURES & BENEFITS

- ☑ crimping tool with replaceable dies for system 22
- ☑ rotary and opened working head
- ☑ compact design facilitates crimping in limited spaces



CE

LOGISTIC DATA

Type	HK 22 C MEL
Weight [kg]	3,3

MECHANICAL DATA

Drive	Battery, Li-Ion 18 V 2,0 Ah
Die type	KP22
Rotate head angle [deg.]	180
Crimping force [kN]	62
Crimping time [s]	5÷6
Working pressure [MPa]	55
Piston stroke [mm]	15
Length [mm]	360
Crimping range	6 ÷ 300

ELECTRICAL DATA

Battery charging time [min]	45
Number of crimps from one battery charge [pcs]	approx. 130 for 150 mm² Cu standard (approximate value depends on the type of wire and tip, ambient temperature, etc.)
Battery voltage [V]	18
Battery capacity [mAh]	2000

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-240	hexagon
Al-Cu	16-240	hexagon
Al-c	16-240	hexagon
Al-g	16-185	hexagon
CKOR, CKL	10-240	hexagon
Cu DIN	6-300	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	10-300	hexagon
H...ERHN, HI...ERHL	10-185	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-95	indent
MJPB	16-35	hexagon
MJPT	16-120	hexagon
ZLA	16-95	crimping
se	35-300	round forming
sm	10-300	round forming

NOTE!

KP22 dies must be ordered separately - we recommend ordering a complete set.

SET CONTAINS	Quantity included [pcs.]	Comment
HK 22 C MEL	1	-
EB-7 - 2Ah MINI LI-ION	2	Battery
EH-7 LI-ION (HBM 7 O)	1	Charger
Plastic case	1	-
Instruction manual	1	-

Battery-powered hydraulic crimping tool, HK 5 C EL



CE

LOGISTIC DATA	
Type	HK 5 C EL
Weight [kg]	4,9

MECHANICAL DATA	
Drive	Battery, Li-Ion 14,4 V 2,6 Ah
Die type	HK5
Rotate head angle [deg.]	180
Crimping force [kN]	55
Crimping time [s]	4÷5
Working pressure [MPa]	70
Piston stroke [mm]	13
Length [mm]	360
Crimping range	6 ÷ 300

ELECTRICAL DATA	
Battery charging time [min]	60
Number of crimps from one battery charge [pcs]	approx. 140 for 150 mm² Cu standard (approximate value depends on the type of wire and tip, ambient temperature, etc.)
Battery voltage [V]	14,4
Battery capacity [mAh]	2600

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-150	hexagon
Al-c	16-185	hexagon
Al-g	16-120	hexagon
Cu DIN	6-185	hexagon
Cu EKO - KREo, LE	10-120	hexagon
Standard Cu	6-240	hexagon
H...ERHN, HI...ERHL	10-150	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-70	indent
KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	10-95	oval
ZLA	16-120	crimping
se	35-300	round forming
sm	10-240	round forming

NOTE!

HK5 dies must be ordered separately - we recommend ordering a complete set.

SET CONTAINS	Quantity included [pcs.]	Comment
HK 5 C EL	1	-
EB-7 - 2,6Ah LI-ION (HBM 7 O)	2	Battery
EH-7 LI-ION (HBM 7 O)	1	Charger
Plastic case	1	-
Instruction manual	1	-

Hydraulic head, GK 5 C



FEATURES & BENEFITS

- head with replaceable dies for system 5
- opened hydraulic crimping head driven by separate pump
- compact design facilitates crimping terminals in tight and limited spaces

LOGISTIC DATA

Type	GK 5 C
Weight [kg]	2,1

MECHANICAL DATA

Drive	external pressure source
Die type	HK5
Crimping force [kN]	52
Working pressure [MPa]	depending on the feed pump, max. 70
Piston stroke [mm]	13
Coupler type	115 Series COUPLING 3/8” NPT MALE NBR
Length [mm]	185
Crimping range	6 ÷ 300

NOTE!

HK5 dies must be ordered separately - we recommend ordering a complete set.

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-150	hexagon
Al-c	16-185	hexagon
Al-g	16-120	hexagon
Cu DIN	6-185	hexagon
Cu EKO - KREo, LE	10-120	hexagon
Standard Cu	6-240	hexagon
H...ERHN, HI...ERHL	10-150	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-70	indent
KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	10-95	oval
ZLA	16-120	crimping
se	35-300	round forming
sm	10-240	round forming

SET CONTAINS	Quantity included [pcs.]
GK 5 C	1
Plastic case	1
Instruction manual	1

Hydraulic crimping tool, HK 5 C

FEATURES & BENEFITS

- crimping tool with replaceable dies for system 5
- rotary and opened working head facilitates side and front “entry” to crimping head
- compact design facilitates crimping in limited spaces



CE

LOGISTIC DATA

Type	HK 5 C
Weight [kg]	2,8

MECHANICAL DATA

Drive	manual
Die type	HK5
Rotate head angle [deg.]	180
Crimping force [kN]	52
Working pressure [MPa]	55
Piston stroke [mm]	13
Length [mm]	375
Crimping range	6 ÷ 300

NOTE!

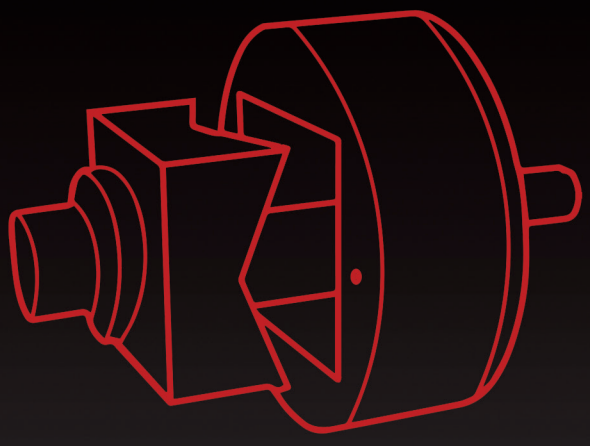
HK5 dies must be ordered separately - we recommend ordering a complete set.

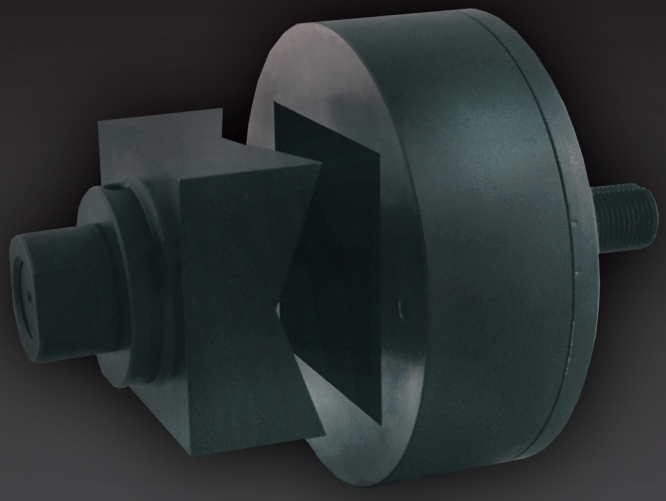
CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-150	hexagon
Al-c	16-185	hexagon
Al-g	16-120	hexagon
Cu DIN	6-185	hexagon
Cu EKO - KREo, LE	10-120	hexagon
Standard Cu	6-240	hexagon
H...ERHN, HI...ERHL	10-150	trapezoid
HI 2x	2x4; 2x16	trapezoid
KO, KW, KI, KOR, KL	10-70	indent
KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	10-95	oval
ZLA	16-120	crimping
se	35-300	round forming
sm	10-240	round forming

SET CONTAINS	Quantity included [pcs.]
HK 5 CHK 5 C	1
Plastic case	1
Instruction manual	1

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Punching tools and blanking dies

Punching tools and blanking dies

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Hydraulic punching head, HD 5 H type, for plates



FEATURES & BENEFITS

- manually powered tool for cutting out holes in metal sheet using WY, NWY, etc. blanking dies
- compact design facilitates cutting out in limited spaces and simplifies transport

LOGISTIC DATA

Type	HD 5 H
Weight [kg]	6,5

MECHANICAL DATA

Drive	manual
Crimping force [kN]	60
Max. thickness of material (steel)	3,2
Working pressure [MPa]	70
Piston stroke [mm]	22
Maximum range of punching holes: 1,5 mm/100 HB (round) [mm Ø]	12,2÷115,5
Maximum range of punching holes: 3,2 mm/100 HB (round) [mm Ø]	12,2÷63,5
Punched 1,5 mm/100 HB (square) hole range [mm]	92x92
Maximum range of punching holes: 3,2 mm/100 HB (square) [mm]	54x54
Maximum range of punching holes: 1,5 mm/100 HB (rectangle) [mm]	42x82
Maximum range of punching holes: 3,2 mm/100 HB (rectangular) [mm]	22x68

DIMENSIONS

Length [mm]	320

SET CONTAINS	Quantity included [pcs.]	Comment
HD 5 H	1	-
3/4”-3/8”-35	1	Reducing sleeve
38/19-44, 38/19-34, 38/19-20	1	Spacer sleeves
3/4”-3/8” - 80 mm	1	Draw mandrel
3/4”-3/4” - 138 mm	1	Draw mandrel
Plastic case	1	-
Instruction manual	1	-

Hydraulic punching head, HD 052 type, for plates

FEATURES & BENEFITS

- the possibility of using “NWY” system cutters; SY; WKY “
- leading “entrance” to the cutting head
- pressure force: 60 kN



LOGISTIC DATA

Type	HD-052
Weight [kg]	3,1

MECHANICAL DATA

Drive	external pressure source
Crimping force [kN]	120
Max. thickness of material (steel)	3,2
Max. thickness of material (stainless steel) [mm]	1,5
Working pressure [MPa]	70
Piston stroke [mm]	25
Coupler type	115 Series COUPLING 3/8” NPT MALE NBR
Maximum range of punching holes: 1,5 mm/100 HB (round) [mm Ø]	12,2÷92,0
Maximum range of punching holes: 3,2 mm/100 HB (round) [mm Ø]	12,2÷63,5

SET CONTAINS	Quantity included [pcs.]	Comment
HD-052	1	-
3/8”-3,8”-75 , 3/4-3/8-130 mm	1	Draws mandrel
3/4”-3/8”-35	1	Reducing sleeve
20/42/23, 20/36/30, 20/36/38	1	Spacer sleeves
Instruction manual	1	-
Plastic case	1	-

Battery-powered hydraulic punching tool for plates, HNW 6 MEL



FEATURES & BENEFITS

- light battery-powered tool for cutting out holes in metal sheet using WY, NWY, etc. blanking dies
- compact design facilitates cutting out in limited spaces and simplifies transport
- Li-Ion batteries, no memory effect

LOGISTIC DATA

Type	HNW 6 MEL
Weight [kg]	3,1

MECHANICAL DATA

Drive	Battery, Li-Ion EB-8-1,5 Ah
Crimping force [kN]	60
Max. thickness of material (steel)	3,2
Working pressure [MPa]	70
Piston stroke [mm]	22
Maximum range of punching holes: 1,5 mm/100 HB (round) [mm Ø]	12,2÷115,5
Maximum range of punching holes: 3,2 mm/100 HB (round) [mm Ø]	12,2÷63,5
Punched 1,5 mm/100 HB (square) hole range [mm]	92x92
Maximum range of punching holes: 3,2 mm/100 HB (square) [mm]	54x54
Maximum range of punching holes: 1,5 mm/100 HB (rectangle) [mm]	45x82
Maximum range of punching holes: 3,2 mm/100 HB (rectangular) [mm]	22x68

DIMENSIONS

Length [mm]	320

SET CONTAINS	Quantity included [pcs.]	Comment
HNW 6 MEL	1	-
EB-8 - 1,5Ah LI-ION	1	Battery
EH-8 LI-ION	1	Charger
38/19-44, 38/19-34, 38/19-20	1	Spacer sleeves
3/4”-3/8” - 80 mm	1	Draw mandrel
3/4”-3/4” - 138 mm	1	Draw mandrel
Plastic case	1	-
Instruction manual	1	-

Round blanking dies, NWY...

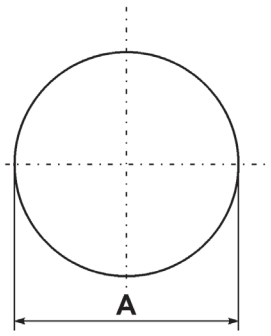
FEATURES & BENEFITS

- blanking dies for making holes in metal plates using hydraulic blanking machine or head
- extensive assortment, other designs in line with client's needs



NOTE!

NWY>37,4 - sold with MOLYKOTE 1000 thread paste.
Products also available in sets.
Our assortment includes a case and MOLYKOTE 1000 thread paste.
Other sizes available on request.



Type	Central hole diameter [mm]	PG thread	M thread	Draw screw	Ø
NWY 12,2/ M12	10÷10,5	-	M12x1,5	3/8"UNF - 63	12,2
NWY 15,4/PG9	10÷10,5	PG 9	-	3/8"UNF - 63	15,4
NWY 16,2/M16	10÷10,5	-	M16x1,5	3/8"UNF - 63	16,2
NWY 18,8/PG11	10÷10,5	PG 11	-	3/8"UNF - 63	18,8
NWY 20,7/PG13 /M20	10÷10,5	PG 13	M20x1,5	3/8"UNF - 63	20,7
NWY 22,8/PG16	10÷10,5	PG 16	-	3/8"UNF - 63	22,8
NWY 25,5/M25	10÷10,5	-	M25x1,5	3/8"UNF - 63	25,5
NWY 28,6/PG21	10÷10,5	PG 21	-	3/8"UNF - 63	28,6
NWY 30,5/M30	10÷10,5	-	M30x1,5	3/8"UNF - 63	30,5
NWY 32,5 / M32	10÷10,5	-	M32x1,5	3/8"UNF - 63	32,5
NWY 37,4/PG29	19,5÷20	PG 29	-	3/4"UNF - 85	37,4
NWY 40,5 / M40	19,5÷20	-	M40x1,5	3/4"UNF - 85	40,5
NWY 47,5/PG36	19,5÷20	PG 36	-	3/4"UNF - 85	47,5
NWY 50,5 / M50	19,5÷20	-	M50x10,5	3/4"UNF - 85	50,5
NWY 54,5/PG42	19,5÷20	PG 42	-	3/4"UNF - 85	54,5
NWY 59,8/PG48	19,5÷20	PG 48	-	3/4"UNF - 85	59,8
NWY 63,5 / M63	19,5÷20	-	M63x1,5	3/4"UNF - 85	63,5

Square and rectangular blanking dies, SY...

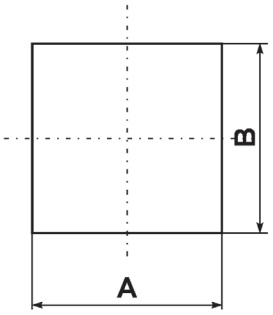
FEATURES & BENEFITS

- blanking dies for making holes in metal plates using hydraulic blanking machine or head
- extensive assortment, other designs in line with client's needs
- draw mandrel included



NOTE!

SY - sold with MOLYKOTE 1000 thread paste.
Products also available in sets.
Our assortment includes a case and MOLYKOTE 1000 thread paste.
Other sizes available on request.



Type	Central hole diameter [mm]	Draw mandrel	A	B
SY 22*68	10,5÷11	3/8" / M10x1-165	22	68
SY 22,2*45	10,5÷11	3/8" / M10x1-165	22,2	45
SY1-30	20,5÷21	3/4" / M20x1,5-145	30	30
SY1-45	20,5÷21	3/4" / M20x1,5-145	45	45
SY1-54	20,5÷21	3/4" / M20x1,5-145	54	54
SY1-68	20,5÷21	3/4" / M20x1,5-165	68	68
SY2-45x92	20,5÷21	3/4" / M20x1,5-165	45	92
SY2-92	20,5÷21	3/4" / M20x1,5-165	92	92

Shaped blanking dies, WKY...

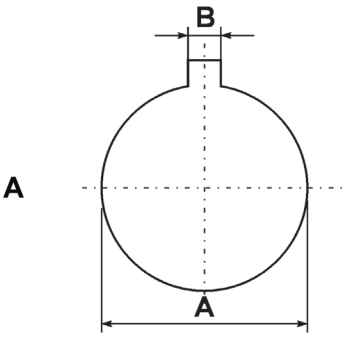
FEATURES & BENEFITS

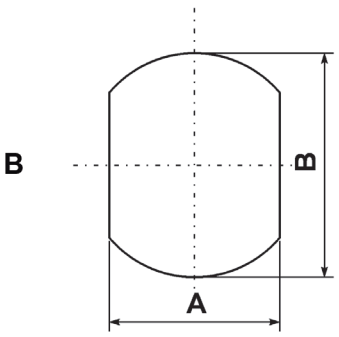
- blanking dies for making holes in metal plates using hydraulic blanking machine or head
- extensive assortment, other designs in line with client's needs

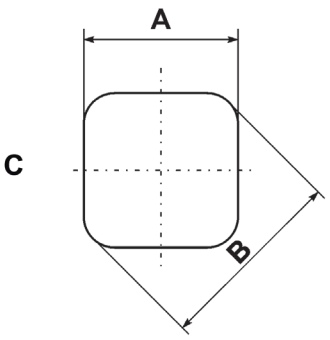
NOTE!

WKY - sold with MOLYKOTE 1000 thread paste. Products also available in sets.
Our assortment includes a case and MOLYKOTE 1000 thread paste.
Other sizes available on request.









Type	Central hole diameter [mm]	Draw mandrel	Design	A	B
WKY 22,5/A	10,5÷11	3/8"/M10-96	A	22,5	3
WKY 22,5/B	10,5÷11	3/8"/M10-96	B	18,5	22,5
WKY 22,5/C	10,5÷11	3/8"/M10-96	C	20,1	22,5
WKY 30,5/A	16,5÷17	3/4"/M16-120	A	30,5	3

Manual blanking die, NW...

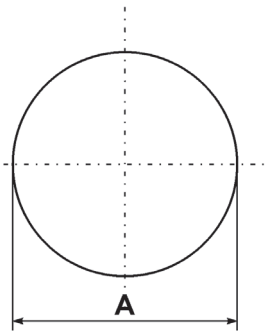
FEATURES & BENEFITS

- blanking dies with manual drive, e.g. open-ended spanner, equipped with draw bolt
- thrust bearing used facilitates hole cutting operations
- draw mandrel included



NOTE!

Products also available in sets.
Our assortment includes a suitcase and MOLYKOTE 1000 thread paste.
Other sizes available on request.



Type	Ø	Spanner size	Central hole diameter [mm]	PG thread	M thread	Draw screw
NW 12,2/ M12	12,2	17	10÷10,5	-	M12x1,5	3/8"UNF - 63
NW 15,4/PG9	15,4	17	10÷10,5	PG 9	-	3/8"UNF - 63
NW 16,2/M16	16,2	17	10÷10,5	-	M16x1,5	3/8"UNF - 63
NW 18,8/PG11	18,8	17	10÷10,5	PG 11	-	3/8"UNF - 63
NW 20,7/PG13 /M20	20,7	17	10÷10,5	PG 13	M20x1,5	3/8"UNF - 63
NW 22,8/PG16	22,8	17	10÷10,5	PG 16	-	3/8"UNF - 63
NW 25,5/M25	25,5	17	10÷10,5	-	M25x1,5	3/8"UNF - 63
NW 28,6/PG21	28,6	17	10÷10,5	PG 21	-	3/8"UNF - 63
NW 30,5/M30	30,5	17	10÷10,5	-	M30x1,5	3/8"UNF - 63
NW 32,5 / M32	32,5	17	10÷10,5	-	M32x1,5	3/8"UNF - 63
NW 37,4/PG29	37,4	27	19,5÷20	PG 29	-	3/4"UNF - 85
NW 40,5 / M40	40,5	27	19,5÷20	-	M40x1,5	3/4"UNF - 85
NW 47,5/PG36	47,5	27	19,5÷20	PG 36	-	3/4"UNF - 85
NW 50,5 / M50	50,5	27	19,5÷20	-	M50x10,5	3/4"UNF - 85
NW 54,5/PG42	54,5	27	19,5÷20	PG 42	-	3/4"UNF - 85
NW 59,8/PG48	59,8	27	19,5÷20	PG 48	-	3/4"UNF - 85
NW 63,5 / M63	63,5	27	19,5÷20	-	M63x1,5	3/4"UNF - 85

Manual blanking die, SQ...

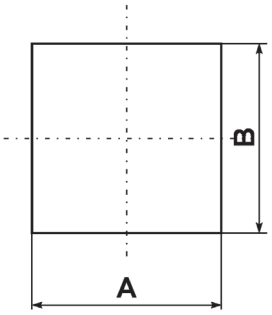
FEATURES & BENEFITS

- blanking dies with manual drive, e.g. open-ended spanner, equipped with draw bolt
- thrust bearing used facilitates hole cutting operations
- draw mandrel included

NOTE!

Products also available in sets.
Our assortment includes a suitcase and MOLYKOTE 1000 thread paste.
Other sizes available on request.





Type	A	B	Spanner size	Central hole diameter [mm]
SQ 22*98	22	92	17	10,5÷11
SQ 45*92	45	92	27	20,5÷21
SQ1-30	30	30	27	20,5÷21
SQ1-45	45	45	27	20,5÷21
SQ1-50	50	50	27	20,5÷21
SQ1-54	54	54	27	20,5÷21
SQ1-66	66	66	27	20,5÷21
SQ1-68	68	68	27	20,5÷21
SQ2-22,5x45	22,2	45	17	10,5÷11
SQ2-22x68	22	68	17	10,5÷11
SQ2-35x92	35	92	27	20,5÷21
SQ2-92	92	92	27	20,5÷21

Manual blanking die, WK...

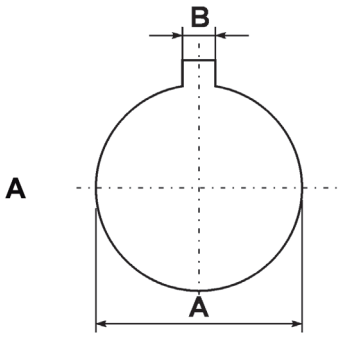
FEATURES & BENEFITS

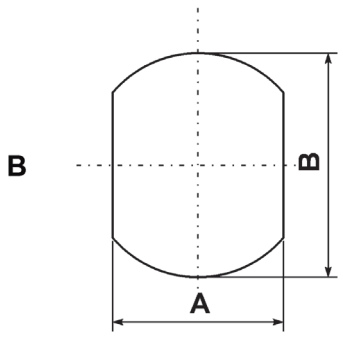
- blanking dies with manual drive, e.g. open-ended spanner, equipped with draw bolt
- thrust bearing used facilitates hole cutting operations
- draw mandrel included

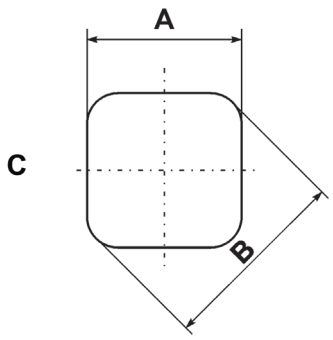
NOTE!

Products also available in sets.
Our assortment includes a suitcase and MOLYKOTE 1000 thread paste.
Other sizes available on request.









Type	A	B	Spanner size	Central hole diameter [mm]	Draw screw	Design
WK 22,5/A	22,5	3,0	17	10,5÷11	M10x11-80	A
WK 22,5/B	18,5	22,5	17	10,5÷11	M10x10-80	B
WK 22,5/C	20,1	22,5	17	10,5÷11	M10x10-80	C
WK 30,5/A	30,5	3,0	22	16,5÷17	M16x1-100	A

Manual blanking die set, NW-PG

FEATURES & BENEFITS

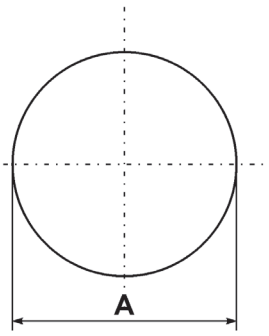
- ☑ sets of manual blanking dies for gland holes, M thread
- ☑ thrust bearing used facilitates hole cutting operations



LOGISTIC DATA

Type	NW-PG

SET CONTAINS	Quantity included [pcs.]	Component type
NW 15,4/PG9	1	Manual blanking die
NW 18,8/PG11	1	Manual blanking die
NW 20,7/PG13 /M20	1	Manual blanking die
NW 22,8/PG16	1	Manual blanking die
NW 28,6/PG21	1	Manual blanking die
NW 37,4/PG29	1	Manual blanking die
NW 47,5/PG36	1	Manual blanking die
NW 54,5/PG42	1	Manual blanking die
NW 54,5/PG42	1	Plastic case
MOLYKOTE 1000	1	Thread paste



Manual blanking die set, NW-M

FEATURES & BENEFITS

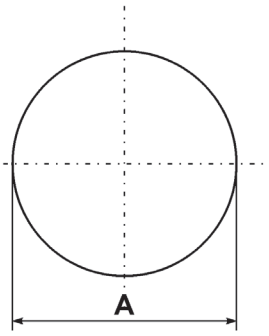
- ☑ sets of manual blanking dies for gland holes, PG thread
- ☑ thrust bearing used facilitates hole cutting operations



LOGISTIC DATA

Type	NW-M

SET CONTAINS	Quantity included [pcs.]	Component type
NW 16,2/M16	1	Manual blanking die
NW 20,7/PG13 /M20	1	Manual blanking die
NW 25,5/M25	1	Manual blanking die
NW 32,5 / M32	1	Manual blanking die
NW 40,5 / M40	1	Manual blanking die
NW 50,5 / M50	1	Manual blanking die
NW 63,5 / M63	1	Manual blanking die
NW 63,5 / M63	1	Plastic case
MOLYKOTE 1000	1	Thread paste



Hydraulic blanking die set, NWY-PG

FEATURES & BENEFITS

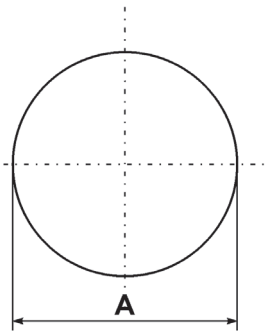
- sets of blanking dies for gland holes, PG thread
- for hydraulic tools



LOGISTIC DATA

Type	NWY-PG

SET CONTAINS	Quantity included [pcs.]	Component type
NWY 15,4/PG9	1	Round blanking die
NWY 18,8/PG11	1	Round blanking die
NWY 20,7/PG13 /M20	1	Round blanking die
NWY 22,8/PG16	1	Round blanking die
NWY 28,6/PG21	1	Round blanking die
NWY 37,4/PG29	1	Round blanking die
NWY 47,5/PG36	1	Round blanking die
NWY 54,5/PG42	1	Round blanking die
NWY 54,5/PG42	1	Plastic case
MOLYKOTE 1000	1	Thread paste



Hydraulic blanking die set, NWY-M

FEATURES & BENEFITS

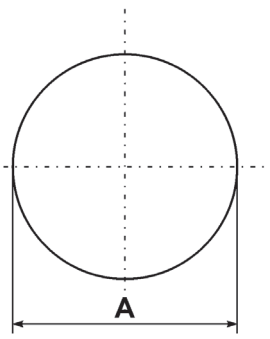
- sets of blanking dies for gland holes, M thread
- for hydraulic tools



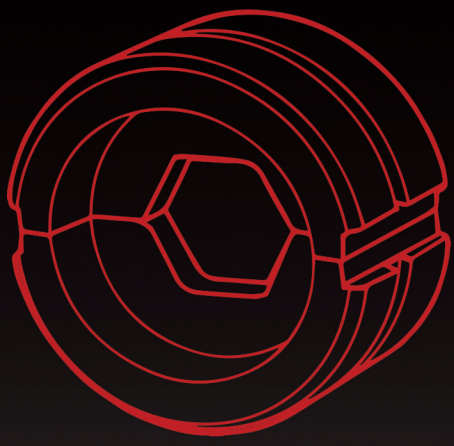
LOGISTIC DATA

Type	NWY-M

SET CONTAINS	Quantity included [pcs.]	Component type
NWY 16,2/M16	1	Round blanking die
NWY 20,7/PG13 /M20	1	Round blanking die
NWY 25,5/M25	1	Round blanking die
NWY 32,5 / M32	1	Round blanking die
NWY 40,5 / M40	1	Round blanking die
NWY 50,5 / M50	1	Round blanking die
NWY 63,5 / M63	1	Round blanking die
NWY 63,5 / M63	1	Plastic case
MOLYKOTE 1000	1	Thread paste



ERGOM®





Dies

Dies

Dies, KP22	399
Dies, KP22...HW	401
Dies, KP22...C	402
Dies, KP22...MW	402
Dies, HK5	403

Die sets

Set of crimping dies, Z-KP22-ST	405
Set of crimping dies, Z-KP22-DIN	406
Set of crimping dies, Z-KP22-SM	407
Die set, Z-HK5-DIN	408
Die set, Z-HK5-ST	409

Dies, KP22

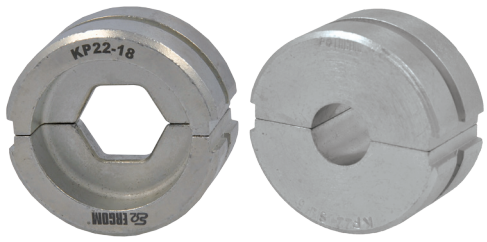
P Tools Professional

FEATURES & BENEFITS

- professional dies for system 22
- crimping shape: “trapeze”, “notch”, “oval”, “wrapped”, “hexagon” - depending on selected die

NOTE!

On special request we can provide dies for other purposes.



Type	Index Ergom	Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-5	E06PZ-05160200200	5	6	Cu DIN	hexagon
KP22-6	E06PZ-05160200300	6	10	Cu EKO - KREo, LE	hexagon
		6	10	Cu DIN	
KP22-7	E06PZ-05160200400	7	10	Standard Cu	hexagon
		7	16	Cu EKO - KREo, LE	
KP22-9	E06PZ-05160200550	9	25	Cu EKO - KREo, LE	hexagon
KP22-10	E06PZ-05160200600	10	10	Al DIN	hexagon
		10	16	Al-c	
		10	25	Standard Cu	
		10	25	Cu DIN	
		10	10	Al-Cu	
KP22-11	E06PZ-05160200700	11	25	Al-c	hexagon
		11	35	Cu EKO - KREo, LE	
KP22-12	E06PZ-05160200800	12	16-25	Al DIN	hexagon
		12	35	Standard Cu	
		12	35	Al-c	
		12	35	Cu DIN	
		12	16-25	Al-Cu	
KP22-13	E06PZ-05160200900	13	16	Al-g	hexagon
		13	50	Cu EKO - KREo, LE	
KP22-14	E06PZ-05160201000	14	25	Al-g	hexagon
		14	35	Al DIN	
		14	50	Standard Cu	
		14	50	Cu DIN	
		14	50	Al-c	
		14	35	Al-Cu	
KP22-15	E06PZ-05160201050	15	70	Cu EKO - KREo, LE	hexagon
KP22-16	E06PZ-05160201100	16	50	Al DIN	hexagon
		16	70	Standard Cu	
		16	70	Cu DIN	
		16	70	Al-c	
		16	35	Al-g	
		16	50	Al-Cu	
KP22-17	E06PZ-05160201200	17	95	Standard Cu	hexagon
		17	95	Cu EKO - KREo, LE	
KP22-18	E06PZ-05160201300	18	50	Al-g	hexagon
		18	70	Al DIN	
		18	95	Al-c	
		18	95	Cu DIN	
		18	70	Al-Cu	
KP22-19	E06PZ-05160201400	19	120	Standard Cu	hexagon
		19	120	Al-c	
KP22-20	E06PZ-05160201500	20	70	Al-g	hexagon
		20	120	Cu DIN	
		20	150	Standard Cu	

Type	Index Ergom	Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-21	E06PZ-05160201600	21	150	Al-c	hexagon
KP22-22	E06PZ-05160201700	22	95	Al-g	hexagon
		22	95-120	Al DIN	
		22	150	Cu DIN	
		22	95-120	Al-Cu	
KP22-23	E06PZ-05160201800	23	185	Standard Cu	hexagon
		23	185	Al-c	
KP22-25	E06PZ-05160201900	25	120	Al-g	hexagon
		25	185	Cu DIN	
		25	240	Standard Cu	
		25	150	Al DIN	
		25	150	Al-Cu	
KP22-28	E06PZ-05160202100	28	150	Al-g	hexagon
		28	185	Al DIN	
		28	240	Cu DIN	
		28	240	Al-c	
		28	300	Standard Cu	
		28	185	Al-Cu	
KP22-30	E06PZ-05160202200	30	185	Al-g	hexagon
KP22-32	E06PZ-05160202300	32	240	Al DIN	hexagon
		32	300	Cu DIN	
		32	400	Standard Cu	
		32	240	Al-Cu	
KP22-E140	E06PZ-05160800100	-	16-35	MJPB	hexagon
KP22-E173	E06PZ-05160800200	-	16-95	MJPT	hexagon
KP22-E215	E06PZ-05160800300	-	95-120	MJPT	hexagon
KP22-2H10	E06PZ-05160601200	-	10	HI 2x	trapezoid
KP22-2H16	E06PZ-05160601300	-	16	HI 2x	trapezoid
KP22-2H6	E06PZ-05160601100	-	6	HI 2x	trapezoid
KP22-H10	E06PZ-05160600100	-	10	H...ERHN, HI...ERHL	trapezoid
KP22-H120	E06PZ-05160600800	-	120	H...ERHN, HI...ERHL	trapezoid
KP22-H150	E06PZ-05160600900	-	150	H...ERHN, HI...ERHL	trapezoid
KP22-H16	E06PZ-05160600200	-	16	H...ERHN, HI...ERHL	trapezoid
KP22-H185	E06PZ-05160601000	-	185	H...ERHN, HI...ERHL	trapezoid
KP22-H25	E06PZ-05160600300	-	25	H...ERHN, HI...ERHL	trapezoid
KP22-H35	E06PZ-05160600400	-	35	H...ERHN, HI...ERHL	trapezoid
KP22-H50	E06PZ-05160600500	-	50	H...ERHN, HI...ERHL	trapezoid
KP22-H70	E06PZ-05160600600	-	70	H...ERHN, HI...ERHL	trapezoid
KP22-H95	E06PZ-05160600700	-	95	H...ERHN, HI...ERHL	trapezoid
KP22-K10	E06PZ-05160400100	-	10	KO, KW, KI, KOR, KL	indent
KP22-K16	E06PZ-05160400200	-	16	KO, KW, KI, KOR, KL	indent
KP22-K25	E06PZ-05160400300	-	25	KO, KW, KI, KOR, KL	indent
KP22-K35	E06PZ-05160400400	-	35	KO, KW, KI, KOR, KL	indent
KP22-K50	E06PZ-05160400500	-	50	KO, KW, KI, KOR, KL	indent
KP22-K70	E06PZ-05160400600	-	70	KO, KW, KI, KOR, KL	indent
KP22-K95	E06PZ-05160400700	-	95	KO, KW, KI, KOR, KL	indent
KP22-K120	E06PZ-05160400800	-	120	KO, KW, KI, KOR, KL	indent
KP22-S10	E06PZ-05160300100	-	10	sm	round forming
KP22-S16	E06PZ-05160300200	-	16	sm	round forming
KP22-S25	E06PZ-05160300300	-	25	sm	round forming
		-	35	se	
KP22-S35	E06PZ-05160300400	-	35	sm	round forming
		-	50	se	
KP22-S50	E06PZ-05160300500	-	50	sm	round forming
		-	70	se	
KP22-S70	E06PZ-05160300600	-	70	sm	round forming
		-	95	se	
KP22-S95	E06PZ-05160300700	-	95	sm	round forming
		-	120	se	
KP22-S120	E06PZ-05160300800	-	120	sm	round forming
		-	150	se	
KP22-S150	E06PZ-05160300900	-	150	sm	round forming
		-	185	se	

Type	Index Ergom	Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-S185	E06PZ-05160301000	-	185	sm	round forming
		-	240	se	
KP22-S240	E06PZ-05160301100	-	240	sm	round forming
		-	300	se	
KP22-S300	E06PZ-05160301200	-	300	sm	round forming
KP22-ZL16	E06PZ-05160700100	-	16	ZLA	crimping
KP22-ZL25	E06PZ-05160700200	-	25	ZLA	crimping
KP22-ZL35	E06PZ-05160700300	-	35	ZLA	crimping
KP22-ZL50	E06PZ-05160700400	-	50	ZLA	crimping
KP22-ZL70	E06PZ-05160700500	-	70	ZLA	crimping
KP22-ZL95	E06PZ-05160700600	-	95	ZLA	crimping

Dies KP22...HW

FEATURES & BENEFITS

- professional dies for system 22, for H...ERHN and HI...ERHL terminals
- crimping shape: “trapezoid with teeth”

Professional dies KP22-HW for professional hydraulic presses



Type	Index Ergom	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-HW10	E06PZ-05160650100	10	H...ERHN, HI...ERHL	trapezoid with fangs
KP22-HW16	E06PZ-05160650200	16	H...ERHN, HI...ERHL	trapezoid with fangs
KP22-HW25	E06PZ-05160650300	25	H...ERHN, HI...ERHL	trapezoid with fangs
KP22-HW35	E06PZ-05160650400	35	H...ERHN, HI...ERHL	trapezoid with fangs
KP22-HW50	E06PZ-05160650500	50	H...ERHN, HI...ERHL	trapezoid with fangs

Dies, KP22...C

FEATURES & BENEFITS

- professional dies for system 22, for compressed cable terminals
- crimping shape: “hexagon”

Professional crimping dies designed for crimping terminals (CKOR type) and joints (CKL type) in the compressed wire

NOTE!

On special request we can provide dies for other purposes.



Type	Index Ergom	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-C10	E06PZ-04050900200	10	CKOR, CKL	hexagon
KP22-C16	E06PZ-04050900300	16	CKOR, CKL	hexagon
KP22-C25	E06PZ-04050900400	25	CKOR, CKL	hexagon
KP22-C35	E06PZ-04050900500	35	CKOR, CKL	hexagon
KP22-C50	E06PZ-04050900550	50	CKOR, CKL	hexagon
KP22-C70	E06PZ-04050900600	70	CKOR, CKL	hexagon
KP22-C95	E06PZ-04050900700	95	CKOR, CKL	hexagon
KP22-C120	E06PZ-04050900800	120	CKOR, CKL	hexagon
KP22-C150	E06PZ-04050900900	150	CKOR, CKL	hexagon
KP22-C185	E06PZ-04050901000	185	CKOR, CKL	hexagon
KP22-C240	E06PZ-04050901050	240	CKOR, CKL	hexagon

Dies KP22...MW

FEATURES & BENEFITS

- professional dies for system 22, for crimping aluminium DIN terminals on wires with aluminium cores, with an RMC/RMV operating core design
- crimping shape: “hexagon with teeth”

Professional dies KP22-MW for presses with replaceable dies.



Type	Index Ergom	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-MW16	E06PZ-05160250100	16	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW25	E06PZ-05160250200	25	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW35	E06PZ-05160250300	35	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW50	E06PZ-05160250400	50	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW70	E06PZ-05160250500	70	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW95	E06PZ-05160250600	95	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW120	E06PZ-05160250700	120	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW150	E06PZ-05160250800	150	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW185	E06PZ-05160250900	185	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW240	E06PZ-05160251000	240	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth
KP22-MW300	E06PZ-05160251100	300	Aluminium, DIN KRA, KRAC, KDA, KDAC, LA, LAC	Hexagon with teeth

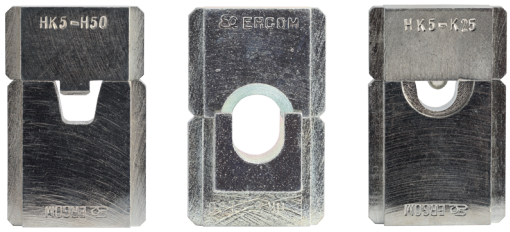
Dies, HK5

FEATURES & BENEFITS

- replaceable die for system 5
- crimping shape: “trapeze”, “notch”, “oval” and “hexagon”, depending on selected die

NOTE!

On special request we can provide dies for other purposes.



Type	Index Ergom	Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
HK5-5	E06PZ-05030400150	5	6	Cu DIN	hexagon
HK5-6	E06PZ-05030400200	6	10	Cu EKO - KREo, LE	hexagon
		6	10	Cu DIN	
HK5-7	E06PZ-05030400300	7	10	Standard Cu	hexagon
		7	16	Cu EKO - KREo, LE	
HK5-8	E06PZ-05030400400	8	16	Standard Cu	hexagon
		8	16	Cu DIN	
HK5-9	E06PZ-05030400450	9	25	Cu EKO - KREo, LE	hexagon
HK5-10	E06PZ-05030400500	10	25	Standard Cu	hexagon
		10	25	Cu DIN	
		10	16	Al-c	
		10	10	Al DIN	
HK5-11	E06PZ-05030400600	11	35	Cu EKO - KREo, LE	hexagon
		11	25	Al-c	
HK5-12	E06PZ-05030400700	12	35	Standard Cu	hexagon
		12	35	Cu DIN	
		12	35	Al-c	
		12	16-25	Al DIN	
HK5-13	E06PZ-05030400800	13	50	Cu EKO - KREo, LE	hexagon
		13	16	Al-g	
HK5-14	E06PZ-05030400900	14	50	Standard Cu	hexagon
		14	50	Cu DIN	
		14	50	Al-c	
		14	25	Al-g	
		14	35	Al DIN	
HK5-15	E06PZ-05030400950	15	70	Cu EKO - KREo, LE	hexagon
HK5-16	E06PZ-05030401000	16	70	Standard Cu	hexagon
		16	70	Cu DIN	
		16	70	Al-c	
		16	35	Al-g	
		16	50	Al DIN	
HK5-17	E06PZ-05030401100	17	95	Standard Cu	hexagon
		17	95	Cu EKO - KREo, LE	
HK5-18	E06PZ-05030401200	18	95	Cu DIN	hexagon
HK5-19	E06PZ-05030401300	19	120	Standard Cu	hexagon
		19	120	Cu EKO - KREo, LE	
		19	120	Al-c	
HK5-20	E06PZ-05030401400	20	150	Standard Cu	hexagon
		20	120	Cu DIN	
		20	70	Al-g	
HK5-21	E06PZ-05030401500	21	150	Al-c	hexagon
HK5-22	E06PZ-05030401600	22	150	Cu DIN	hexagon
		22	95	Al-g	
		22	95-120	Al DIN	

Type	Index Ergom	Socket code no.	Cable cross-section [mm²]	Terminal group	Crimping shape
HK5-23	E06PZ-05030401700	23	185	Standard Cu	hexagon
		23	185	Al-c	
HK5-25	E06PZ-05030401800	25	240	Standard Cu	hexagon
		25	185	Cu DIN	
		25	120	Al-g	
		25	150	Al DIN	
HK5 2H6	E06PZ-05030701000	-	6	HI 2x	trapezoid
HK5 2H10	E06PZ-05030701100	-	10	HI 2x	trapezoid
HK5 2H16	E06PZ-05030701200	-	16	HI 2x	trapezoid
HK5 H10/2H4	E06PZ-05030700100	-	10	H...ERHN, HI...ERHL	trapezoid
		-	4	HI 2x	
HK5 H16	E06PZ-05030700200	-	16	H...ERHN, HI...ERHL	trapezoid
HK5 H25	E06PZ-05030700300	-	25	H...ERHN, HI...ERHL	trapezoid
HK5 H35	E06PZ-05030700400	-	35	H...ERHN, HI...ERHL	trapezoid
HK5 H50	E06PZ-05030700500	-	50	H...ERHN, HI...ERHL	trapezoid
HK5 H70	E06PZ-05030700600	-	70	H...ERHN, HI...ERHL	trapezoid
HK5 H95	E06PZ-05030700700	-	95	H...ERHN, HI...ERHL	trapezoid
HK5 H120	E06PZ-05030700800	-	120	H...ERHN, HI...ERHL	trapezoid
HK5 H150	E06PZ-05030700900	-	150	H...ERHN, HI...ERHL	trapezoid
HK5 I10	E06PZ-05030600100	-	10	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 I16	E06PZ-05030600200	-	16	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 I25	E06PZ-05030600300	-	25	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 I35	E06PZ-05030600400	-	35	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 I50	E06PZ-05030600500	-	50	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 I70	E06PZ-05030600600	-	70	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 I95	E06PZ-05030600700	-	95	KOI, KWI, KII, KLI, NI, WI, GI, NCI, WCI, GCI (PA, PC, PCV)	oval
HK5 K10	E06PZ-05030800100	-	10	KO, KW, KI, KOR, KL	indent
HK5 K16	E06PZ-05030800200	-	16	KO, KW, KI, KOR, KL	indent
HK5 K25	E06PZ-05030800300	-	25	KO, KW, KI, KOR, KL	indent
HK5 K35	E06PZ-05030800400	-	35	KO, KW, KI, KOR, KL	indent
HK5 K50	E06PZ-05030800500	-	50	KO, KW, KI, KOR, KL	indent
HK5 K70	E06PZ-05030800600	-	70	KO, KW, KI, KOR, KL	indent
HK5 S10	E06PZ-05030500200	-	10	sm	round forming
HK5 S16	E06PZ-05030500300	-	16	sm	round forming
HK5 S25	E06PZ-05030500400	-	25	sm	round forming
		-	35	se	
HK5 S35	E06PZ-05030500500	-	35	sm	round forming
		-	50	se	
HK5 S50	E06PZ-05030500600	-	50	sm	round forming
		-	70	se	
HK5 S70	E06PZ-05030500700	-	70	sm	round forming
		-	95	se	
HK5 S95	E06PZ-05030500800	-	95	sm	round forming
		-	120	se	
HK5 S120	E06PZ-05030500900	-	120	sm	round forming
		-	150	se	
HK5 S150	E06PZ-05030501000	-	150	sm	round forming
		-	185	se	
HK5 S185	E06PZ-05030501100	-	185	sm	round forming
		-	240	se	
HK5 S240	E06PZ-05030501200	-	240	sm	round forming
		-	300	se	
HK5-ZL16	E06PZ-05030900100	-	16	ZLA	crimping
HK5-ZL25	E06PZ-05030900200	-	25	ZLA	crimping
HK5-ZL35	E06PZ-05030900300	-	35	ZLA	crimping
HK5-ZL50	E06PZ-05030900400	-	50	ZLA	crimping
HK5-ZL70	E06PZ-05030900500	-	70	ZLA	crimping
HK5-ZL95	E06PZ-05030900600	-	95	ZLA	crimping
HK5-ZL120	E06PZ-05030900700	-	120	ZLA	crimping

Set of crimping dies, Z-KP22-ST

P Tools Professional



FEATURES & BENEFITS

- set of professional dies for system 22, for Cu standard terminals
- crimping shape: “hexagon”

LOGISTIC DATA

Type	Z-KP22-ST

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-185	hexagon
Al-Cu	10-185	hexagon
Al-c	16-240	hexagon
Al-g	25-150	hexagon
Cu DIN	10-240	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	25-300	hexagon

SET CONTAINS	Quantity included [pcs.]	Comment
KP22-6	1	Die
KP22-6	1	Die
KP22-9	1	Die
KP22-10	1	Die
KP22-12	1	Die
KP22-14	1	Die
KP22-16	1	Die
KP22-17	1	Die
KP22-19	1	Die
KP22-20	1	Die
KP22-23	1	Die
KP22-25	1	Die
KP22-28	1	Die

Set of crimping dies, Z-KP22-DIN

P Tools Professional



FEATURES & BENEFITS

- set of professional dies for system 22, for Cu DIN terminals
- crimping shape: “hexagon”

LOGISTIC DATA

Type	Z-KP22-DIN

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-240	hexagon
Al-Cu	10-240	hexagon
Al-c	16-240	hexagon
Al-g	25-150	hexagon
Cu DIN	6-300	hexagon
Cu EKO - KREo, LE	10	hexagon
Standard Cu	25-400	hexagon

SET CONTAINS	Quantity included [pcs.]	Comment
KP22-5	1	Die
KP22-6	1	Die
KP22-6	1	Die
KP22-10	1	Die
KP22-12	1	Die
KP22-14	1	Die
KP22-16	1	Die
KP22-18	1	Die
KP22-20	1	Die
KP22-22	1	Die
KP22-25	1	Die
KP22-28	1	Die
KP22-32	1	Die

Set of crimping dies, Z-KP22-SM

Tools Professional

FEATURES & BENEFITS

- set of professional dies for system 22, for sector-shaped conductor rounding
- crimping shape: “round”



LOGISTIC DATA

Type	Z-KP22-SM

CRIMPING

Die	Cable cross-section [mm²]	Terminal group	Crimping shape
KP22-S25	25	sm	round forming
	35	se	round forming
KP22-S35	35	sm	round forming
	50	se	round forming
KP22-S50	50	sm	round forming
	70	se	round forming
KP22-S70	70	sm	round forming
	95	se	round forming
KP22-S95	95	sm	round forming
	120	se	round forming
KP22-S120	120	sm	round forming
	150	se	round forming
KP22-S150	150	sm	round forming
	185	se	round forming
KP22-S185	185	sm	round forming
	240	se	round forming
KP22-S240	240	sm	round forming
	300	se	round forming

SET CONTAINS	Quantity included [pcs.]	Comment
KP22-S25	1	Die
KP22-S35	1	Die
KP22-S50	1	Die
KP22-S70	1	Die
KP22-S95	1	Die
KP22-S120	1	Die
KP22-S150	1	Die
KP22-S185	1	Die
KP22-S240	1	Die

Die set, Z-HK5-DIN



FEATURES & BENEFITS

- set of dies for system 5, for DIN Cu terminals
- crimping shape: “hexagon”

LOGISTIC DATA

Type	Z-HK5-DIN

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-150	hexagon
Al-c	16-70	hexagon
Al-g	25-120	hexagon
Cu DIN	6-185	hexagon
Cu EKO - KREo, LE	25	hexagon
Standard Cu	16-240	hexagon

SET CONTAINS	Quantity included [pcs.]	Comment
HK5-5	1	Die
HK5-8	1	Die
HK5-9	1	Die
HK5-10	1	Die
HK5-12	1	Die
HK5-14	1	Die
HK5-16	1	Die
HK5-18	1	Die
HK5-20	1	Die
HK5-22	1	Die
HK5-25	1	Die

Die set, Z-HK5-ST



FEATURES & BENEFITS

- set of dies for system 5, for DIN standard terminals
- crimping shape: “hexagon”

LOGISTIC DATA

Type	Z-HK5-ST

CRIMPING

Terminal group	Cable cross-section [mm²]	Crimping shape
Al DIN	10-150	hexagon
Al-c	16-185	hexagon
Al-g	25-120	hexagon
Cu DIN	10-185	hexagon
Cu EKO - KREo, LE	10-95	hexagon
Standard Cu	10-240	hexagon

SET CONTAINS	Quantity included [pcs.]	Comment
HK5-6	1	Die
HK5-7	1	Die
HK5-8	1	Die
HK5-10	1	Die
HK5-12	1	Die
HK5-14	1	Die
HK5-16	1	Die
HK5-17	1	Die
HK5-18	1	Die
HK5-20	1	Die
HK5-23	1	Die
HK5-25	1	Die

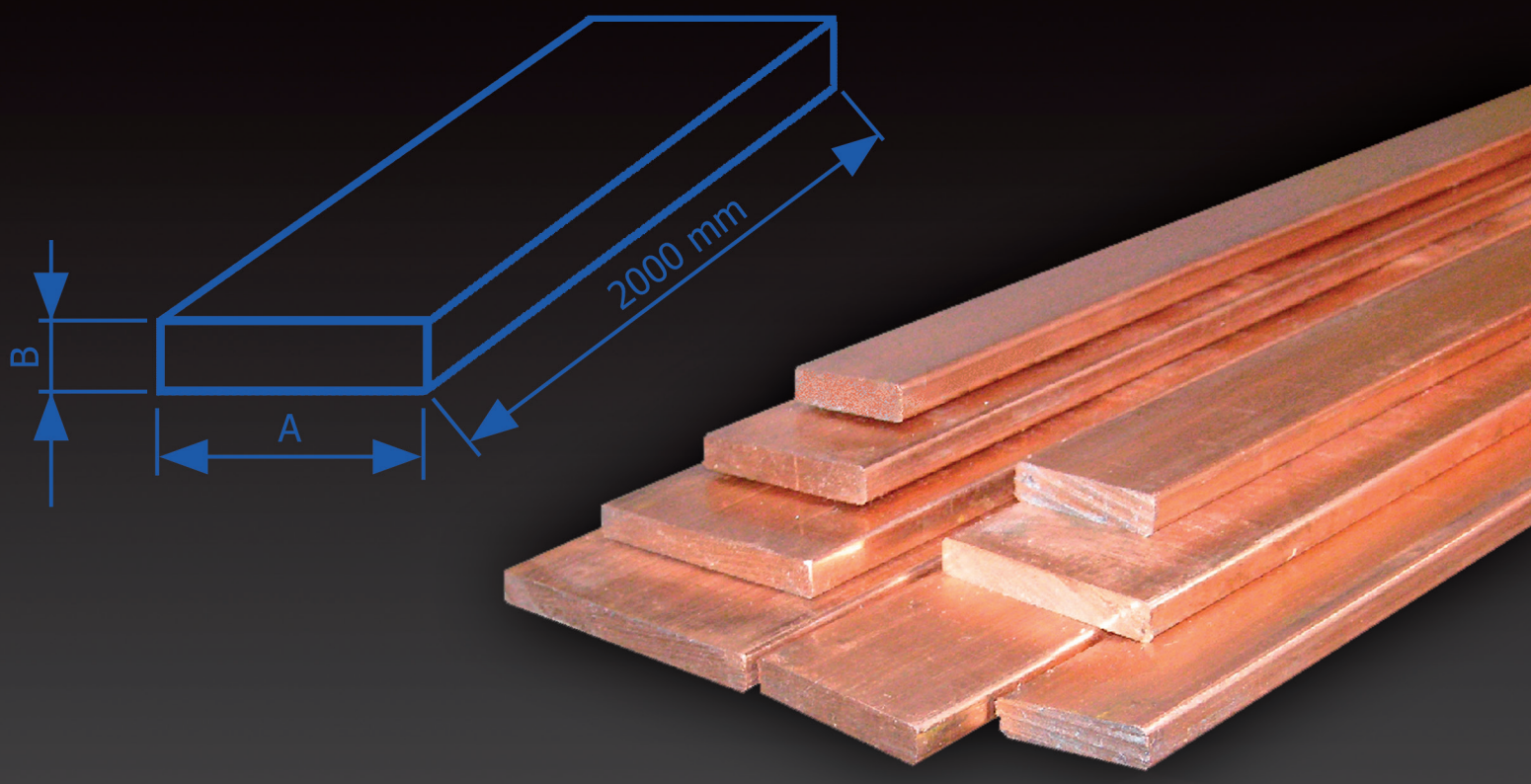
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Busbars and mounting elements

System BB-M4000A – mounting busbars

Accessories for BB-M system	415
Busbar modules	416
Complete sets of busbar modules	419

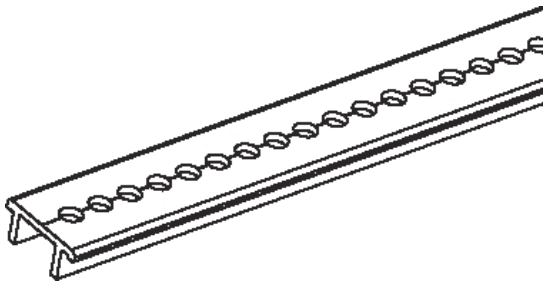
Copper busbars

Flat copper busbars, PMP type	420

Aluminium profile, M-Al/2

FEATURES & BENEFITS

- made of non-magnetic material
- can be easily cut to given size

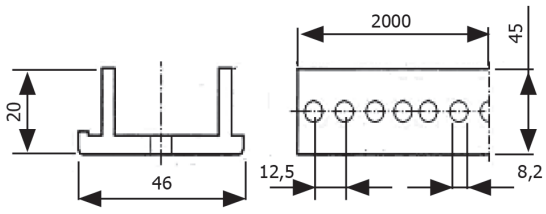


LOGISTIC DATA

Type	M-Al/2
Quantity in package [pcs]	1

MECHANICAL DATA

Dimension [mm]	46x20x2000



Horizontal holder

FEATURES & BENEFITS

- to install ready-made busbar bridges in horizontal layouts



LOGISTIC DATA

Type	M-UH
Quantity in package [pcs]	1

Vertical holder

FEATURES & BENEFITS

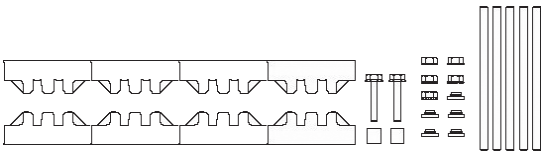
- to install ready-made busbar bridges in vertical layouts



LOGISTIC DATA

Type	M-UV
Quantity in package [pcs]	1

Busbar modules, M-2/5TN



FEATURES & BENEFITS

- holders made of polyamide reinforced with glass fibres
- for 5 mm thick busbar installation
- latches in insulating elements ensure fast installation on profiles

LOGISTIC DATA

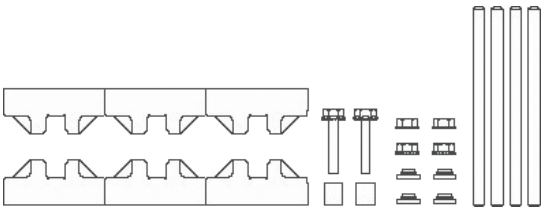
Type	M-2/5TN

MECHANICAL DATA

Insulating holder length [mm]	50
Busbar dimensions, width x thickness [mm]	30÷125x5

SET CONTAINS	Quantity included [pcs.]
Insulation handles	8
Threaded rods	5
Screws	2
Installation c-parts (set)	1

Busbar modules, M-1/10T



FEATURES & BENEFITS

- holders made of polyamide reinforced with glass fibres
- for 10 mm thick busbar installation
- latches in insulating elements ensure fast installation on profiles

LOGISTIC DATA

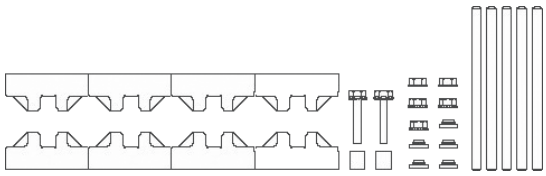
Type	M-1/10T

MECHANICAL DATA

Insulating holder length [mm]	50
Busbar dimensions, width x thickness [mm]	30÷120x10

SET CONTAINS	Quantity included [pcs.]
Insulation handles	6
Threaded rods	4
Screws	2
Installation c-parts (set)	1

Busbar modules, M-1/10TN



FEATURES & BENEFITS

- holders made of polyamide reinforced with glass fibres
- for 10 mm thick busbar installation
- latches in insulating elements ensure fast installation on profiles

LOGISTIC DATA

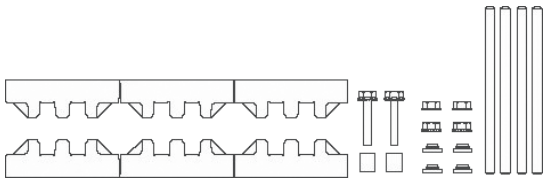
Type	M-1/10TN

MECHANICAL DATA

Insulating holder length [mm]	50
Busbar dimensions, width x thickness [mm]	30÷120x10

SET CONTAINS	**Quantity included [pcs.]**
Insulation handles	8
Threaded rods	5
Screws	2
Installation c-parts (set)	1

Busbar modules, M-2/10T



FEATURES & BENEFITS

- holders made of polyamide reinforced with glass fibres
- for 10 mm thick busbar installation
- latches in insulating elements ensure fast installation on profiles

LOGISTIC DATA

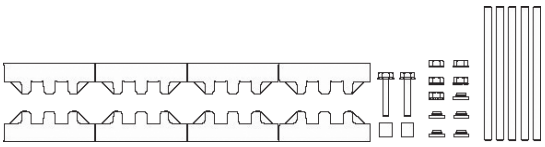
Type	M-2/10T

MECHANICAL DATA

Insulating holder length [mm]	75
Busbar dimensions, width x thickness [mm]	30÷120x10

SET CONTAINS	**Quantity included [pcs.]**
Insulation handles	6
Threaded rods	4
Screws	2
Installation c-parts (set)	1

Busbar modules, M-2/10TN



FEATURES & BENEFITS

- holders made of polyamide reinforced with glass fibres
- for 10 mm thick busbar installation
- latches in insulating elements ensure fast installation on profiles

LOGISTIC DATA

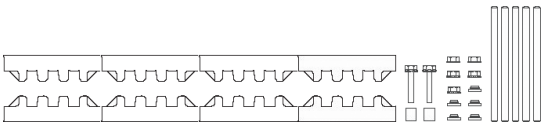
Type	M-2/10TN

MECHANICAL DATA

Insulating holder length [mm]	75
Busbar dimensions, width x thickness [mm]	30÷120x10

SET CONTAINS	Quantity included [pcs.]
Insulation handles	8
Threaded rods	5
Screws	2
Installation c-parts (set)	1

Busbar modules, M-3/10TN



FEATURES & BENEFITS

- holders made of polyamide reinforced with glass fibres
- for 10 mm thick busbar installation
- latches in insulating elements ensure fast installation on profiles

LOGISTIC DATA

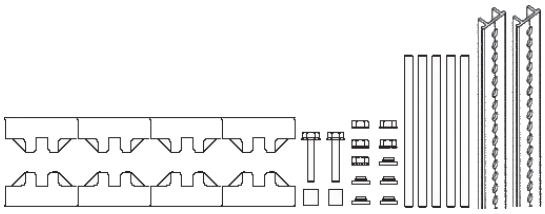
Type	M-3/10TN

MECHANICAL DATA

Insulating holder length [mm]	100
Busbar dimensions, width x thickness [mm]	30÷120x10

SET CONTAINS	Quantity included [pcs.]
Insulation handles	8
Threaded rods	5
Screws	2
Installation c-parts (set)	1

Complete sets of busbar modules, M-1/10TN



FEATURES & BENEFITS

- busbar holders for 10 mm thick busbar installation
- max. current-current capacity: up to 4,000 A
- busbar holder made of polyamide; mounting rails made of structural aluminium

LOGISTIC DATA

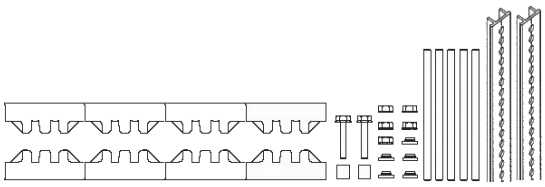
Type	M-1/10TN SET

MECHANICAL DATA

Insulating holder length [mm]	50
Al profile (module) length [mm]	400
Busbar dimensions, width x thickness [mm]	30÷120x10

SET CONTAINS	**Quantity included [pcs.]**
Aluminium sections	2
Insulation handles	8
Threaded rods	5
Screws	2
Installation c-parts (set)	1

Complete sets of busbar modules, M-2/5TN



FEATURES & BENEFITS

- busbar holders for 5 mm thick busbar installation
- max. current-current capacity: up to 4,000 A
- busbar holder made of polyamide; mounting rails made of structural aluminium

LOGISTIC DATA

Type	M-2/5TN SET

MECHANICAL DATA

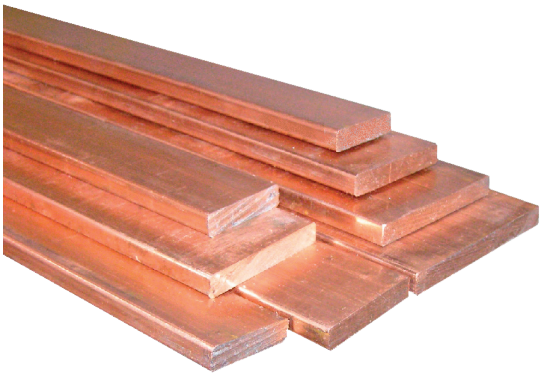
Insulating holder length [mm]	50
Al profile (module) length [mm]	400
Busbar dimensions, width x thickness [mm]	30÷125x5

SET CONTAINS	**Quantity included [pcs.]**
Aluminium sections	2
Insulation handles	8
Threaded rods	5
Screws	2
Installation c-parts (set)	1

Flat copper busbars, PMP type

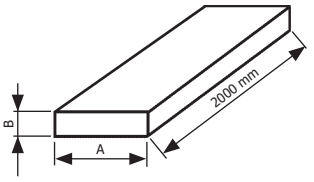
FEATURES & BENEFITS

- busbars made of ECu-58 type electrochemical copper
- busbars dedicated to LV systems
- in non-tin-plated and tin-plated version



APPLICATION

Energy distribution in LV switchboards and electrical cabinets.



MECHANICAL DATA

Material	copper M1E (ECU-58)

CERTIFICATES & STANDARDS

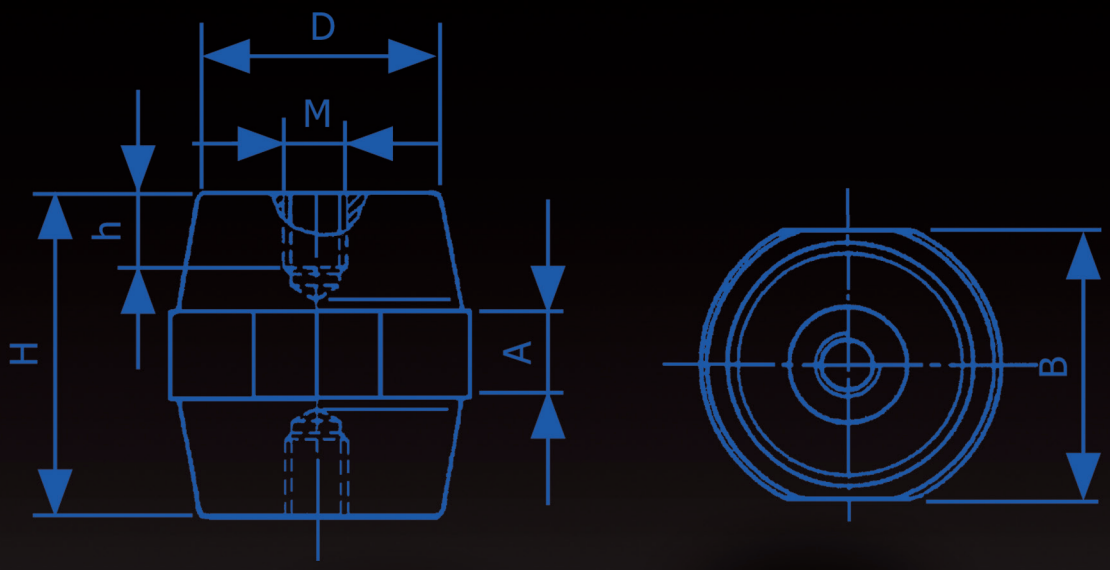
Standards	PN-77/H-82120; PN-82/H-93620

NOTE!

On request, we can provide busbars: AL, AL tinned, copper tin-plated.

Type	I_{max} (65°C) (DIN 43671) [A]	Cross-section [mm²]	A	B	Weight [kg]
PMP 10X10/2	274	100	10	10	1,78
PMP 12X4/2	162	48	12	4	0,86
PMP 15X4/2	204	60	15	4	1,07
PMP 20X5/2	274	100	20	5	1,78
PMP 20X10/2	484	200	20	10	3,56
PMP 25X5/2	327	125	25	5	2,23
PMP 30X5/2	379	150	30	5	2,68
PMP 30X10/2	573	300	30	10	5,35
PMP 40X5/2	482	200	40	5	3,57
PMP 40X10/2	715	400	40	10	7,14
PMP 50X5/2	583	250	50	5	4,46
PMP 50X10/2	852	500	50	10	8,92
PMP 60X5/2	688	300	60	5	5,35
PMP 60X10/2	985	600	60	10	10,7
PMP 80X5/2	715	400	80	5	7,12
PMP 80X10/2	1240	800	80	10	14,27
PMP 100X5/2	855	500	100	5	8,9
PMP 100X10/2	1490	1000	100	10	17,48
PMP 120X10/2	1740	1200	120	10	21,41
PMP 125X5/2	1000	625	125	5	11,2
PMP 200X10/2	2690	2000	200	10	35,6

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Insulators and holders for rails and cables

Low-voltage support insulators, IWN, IWS, IWP

LV support insulators, IWN2 type	423
LV support insulators, IWS type	424

Cable holders, UPC, UKR

Cable holders, UPC type	425
Cable fixing clamps, UKR type	426

LV insulators IWN2 type

FEATURES & BENEFITS

- new, reinforced type series of popular IWN insulators
- crimping made of zinc-coated steel
- body made of polyester reinforced with glass fibres

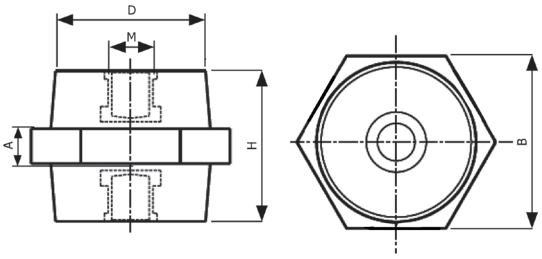


LOGISTIC DATA

Quantity in package [pcs]	10

APPLICATION

Mounting busbar supports in switchboards and control boards.



MECHANICAL DATA

Material	body – polyester reinforced with fibreglass (20%); threaded insert – zinc-coated steel
Operating temp. [°C]	-40 ÷ +140
Colour	RAL 3031

CE

ELECTRICAL DATA

Test voltage [kV]	5
Rated voltage [V AC]	1000

CERTIFICATES & STANDARDS

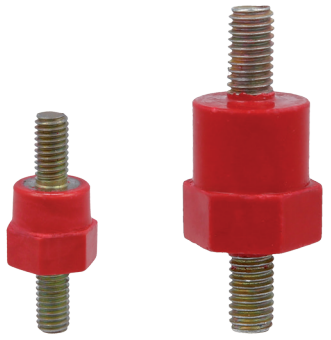
Flammability class	UL 94 V0
Standards	EN-91062-1; RoHS

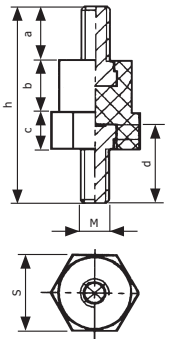
Type	A	B	D	H	M	Strength [daN] (tension)	Strength [daN] (flexion)	Strength [Nm] (torsion)	Max. recommended tightening torque [Nm]	Weight [g]
IWN2-25M5/22	6,0	22,0	18,0	25,0	M5	220	240	6,0	2,6	20
IWN2-25M6/22	6,0	22,0	18,0	25,0	M6	220	340	10,0	3,0	20
IWN2-30M6/30	7,0	30,0	25,0	30,0	M6	460	580	10,0	3,0	61
IWN2-30M8/30	7,0	30,0	25,0	30,0	M8	390	580	25,0	6,0	67
IWN2-35M6/32	10,0	32,0	28,5	35,0	M6	400	710	10,0	3,0	84
IWN2-35M8/32	10,0	32,0	28,5	35,0	M8	510	710	25,0	6,0	75
IWN2-35M10/32	10,0	32,0	28,5	35,0	M10	480	710	50,0	10,0	76
IWN2-40M8/41	12,0	41,0	34,0	40,0	M8	500	900	25,0	3,0	125
IWN2-40M10/41	12,0	41,0	34,0	40,0	M10	500	800	50,0	10,0	117
IWN2-45M10/46	13,0	46,0	39,5	45,0	M10	650	1100	50,0	10,0	159
IWN2-50M6/36	12,0	36,0	29,0	50,0	M6	460	1100	20,0	3,0	129
IWN2-50M8/36	12,0	36,0	29,0	50,0	M8	460	1100	25,0	6,0	126
IWN2-50M10/36	12,0	36,0	29,0	50,0	M10	460	1100	50,0	10,0	112
IWN2-50M10/46	10,0	46,0	37,0	50,0	M10	550	1100	50,0	10,0	164
IWN2-50M10/50	15,0	50,0	45,0	50,0	M10	720	1250	50,0	10,0	209
IWN2-75M8/50	16,0	50,0	38,5	75,0	M8	800	1500	25,0	6,0	273
IWN2-75M10/50	16,0	50,0	38,5	75,0	M10	800	1500	50,0	10,0	268
IWN2-75M12/50	16,0	50,0	38,5	75,0	M12	650	1500	85,0	14,0	298

LV insulators, IWS type

FEATURES & BENEFITS

- full type examination
- body made of polyester reinforced with glass fibres
- short-circuit strength, as per EN61439-1, confirmed by test results





LOGISTIC DATA

Quantity in package [pcs]	10

APPLICATION

Mounting busbar supports in switchboards and control boards.

MECHANICAL DATA

Material	body – polyester resin; threaded rods – stainless steel
Strength [daN] (tension)	222
Strength [daN] (flexion)	166

ELECTRICAL DATA

Test voltage [kV]	5
Rated voltage [V AC]	1000

CERTIFICATES & STANDARDS

Standards	insulators were tested according to EN -91062-1, RoHS

Type	a	b	c	d	h	M	s	Max. recommended tightening torque [Nm]	Screw	Recommended maximum bus width [mm]	Weight [g]
IWS-14/M6	12	7	7	16,7	38	6	13,8	3	6	14	110
IWS-24/M8	14,5	14	9,8	21,3	52,8	8	19,4	6	8	20	300

Cable holders, UPC type

FEATURES & BENEFITS

- mechanically reliable connection with C30/15 profile rail
- additional cable protection with holding inserts
- clamps made of galvanised steel
- fast and intuitive installation



LOGISTIC DATA

Quantity in package [pcs]	10

APPLICATION

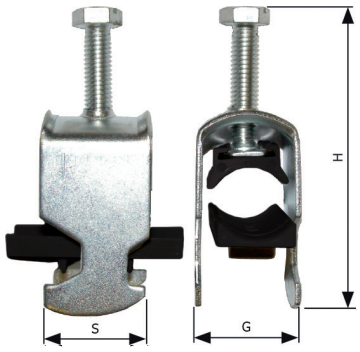
Mounting wires in switchgear, electrical cabinets. Cable holders are designed for mounting on rails, type C30/15.

MECHANICAL DATA

Material	Clamp's body is made from galvanized steel, inserts which hold the cable are made from plastic
Operating temp. [°C]	-25 ÷ +85

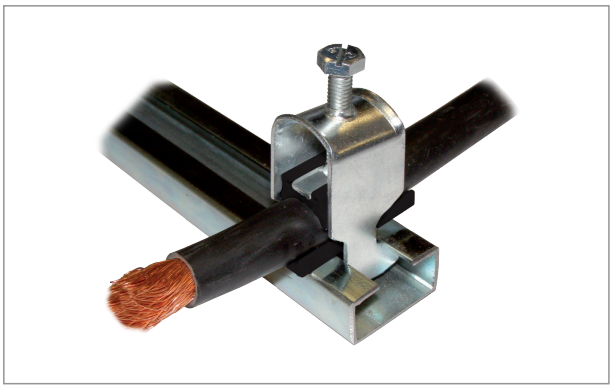
DIMENSIONS

S	22



CE

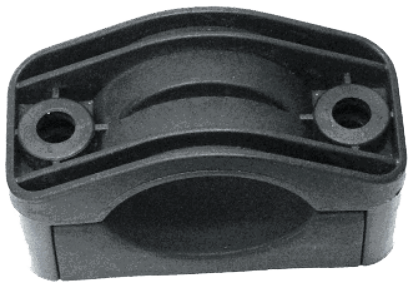
Type	Cable external diameter [mm]	G	H	Weight [g]
UPC6-14	6÷14	21	39	33
UPC12-18	12÷18	23	43	36
UPC18-22	18÷22	26	46	39
UPC22-32	22÷32	39	62	53
UPC32-38	32÷38	42	69	73
UPC38-42	38÷42	47	74	82
UPC42-50	42÷50	54	89	108
UPC50-64	50÷64	68	101	133



Cable fixing clamps, UKR type

FEATURES & BENEFITS

- mechanically reliable connection of terminal and base
- high mechanical impact strength

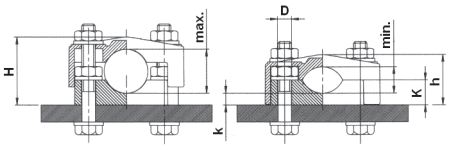


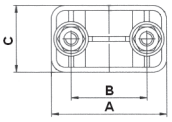
APPLICATION

Mounting cables in switchgear and control cabinets

MECHANICAL DATA

Material	polypropylene
Colour	black
Ambient temperature [°C]	-30 ÷ +85

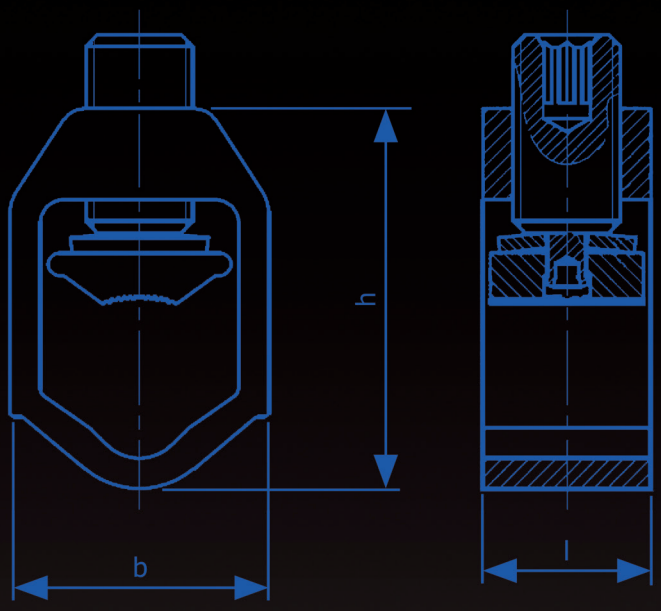


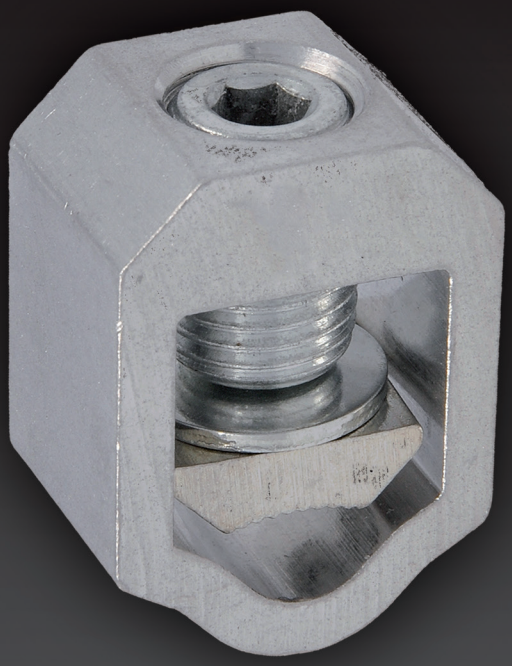


CE

Type	A	B	C	D	h	H	K	k	Cable external diameter [mm]	Quantity in package [pcs]	Weight [g]
UKR 0	68	45	39	9	30	40	15	7	16÷27	10	44
UKR 1	98	69	59	11,7	48	62	25	12	27÷40	10	153
UKR 2	127	94	59	12,7	67	94	31	8	48÷75	10	210
UKR 3	157	120	69,5	12,7	91	116	45	18	65÷90	1	388

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Busbar connectors

V, VD terminals and accessories

V-clamps with standard screws	429
Double V-clamps, VD type	430
Insulation covers, VPI type	430
Terminal plates, PV type	431

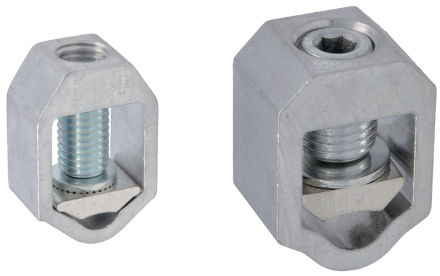
Clamps for connecting busbars

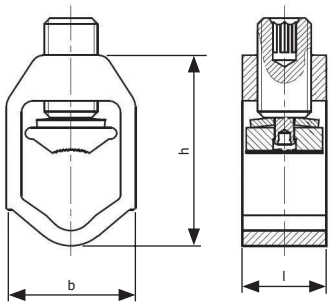
Busbar clamps, C2 type	432

V-clamps with standard screws

FEATURES & BENEFITS

- clamps for mounting cables with SM, SE, RM, RE profile conductors
- cables with multi-wire conductors can be connected directly
- body made of aluminium alloy





LOGISTIC DATA

Type	VN 300 (16-300) (12 PCS)
Quantity in package [pcs]	12

APPLICATION

connecting single cores of Al and Cu cables, round and sector-shaped, 90° and 120° types.

MECHANICAL DATA

Material	Body: high strength Al-alloy (AlMgSi), corrosion resistant, uncoated. Pressure pad: brass, electro tinned. Screw: brass, electro tinned. Belleville spring: spring steel, galvanized
Nominal cross-section, rm [mm2]	16÷185
Cross-section, re [mm²]	16÷240
Cross-section, sm [mm²]	25÷240
Cross-section, se [mm²]	25÷300
Tightening torque [Nm]	25÷30

ELECTRICAL DATA

Nominal cross-section [mm²]	300
I_{pk} [kA]	55
Effective IRMS value, 1 s [kA]	25

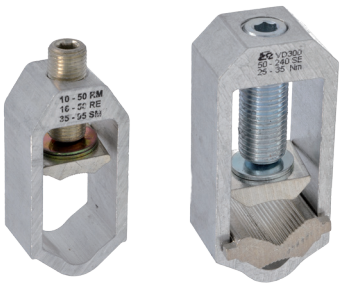
DIMENSIONS

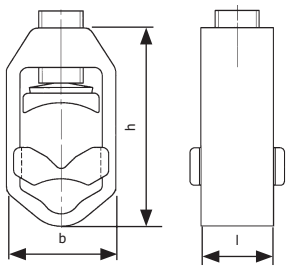
b	34
h	50
l	22

Double V-clamps, VD type

FEATURES & BENEFITS

- clamps for mounting cables with SM, SE, RM, RE profile conductors
- cables with multi-wire conductors can be connected directly
- body made of aluminium alloy





LOGISTIC DATA

Quantity in package [pcs]	12

APPLICATION

Connecting 1÷2 cores of Al and Cu power cables with busbars, terminals of disconnectors, fuse bases etc. Clamps are suitable for all the kinds of cable cores, i.e. sector stranded (sm), sector solid (se), round stranded (rm), round solid (re).

MECHANICAL DATA

Design	A complete clamp set consists of VD clamp and PV terminal plate. Appropriate combination can be set by the user.

CERTIFICATES & STANDARDS

Standards	EN 60947-7-1 (IEC 60947-7-1)

Type	b	h	l	Nominal cross-section, rm [mm2]	Cross-section, re [mm²]	Cross-section, sm [mm²]	Cross-section, se [mm²]	Tightening torque [Nm]
VD 120 (10-120)	27	54	20	10÷50	16÷50	35÷95	50÷120	17,5±2,5
VD 300 (50-240)	34	74	22	50÷185	70÷240	70÷240	95÷240	30±5

Insulation covers, VPI type

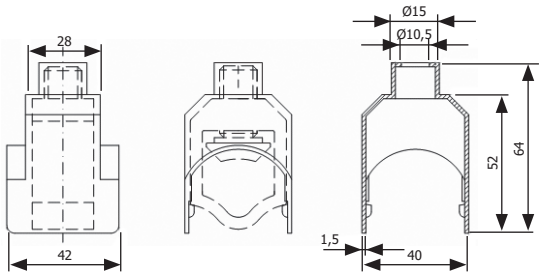
FEATURES & BENEFITS

- enhance operation safety
- intuitive and fast installation



LOGISTIC DATA

Type	VPI-3 (12 PCS)
Quantity in package [pcs]	12
Weight [g]	20



APPLICATION

Insulation covers have a hole for an Allen wrench to enhance personnel safety.

MECHANICAL DATA

Material	polyamide 6.6
Colour	black

NOTE!

On request, other colours are available (yellow, blue, red, green).

Terminal plates, PV type

FEATURES & BENEFITS

- terminal plates for mounting cables with SM, SE, RM, RE profile conductors
- cables with multi-wire conductors can be connected directly
- made of tin-plated copper; compatible with V type terminals



LOGISTIC DATA

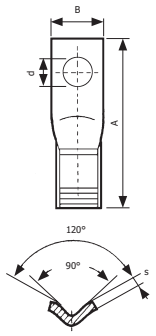
Quantity in package [pcs]	12

APPLICATION

Connecting V (VD) clamps to busbars and flat terminals.

MECHANICAL DATA

Material	Cu, electro tinned



CERTIFICATES & STANDARDS

Standards	EN 60947-7-1 (IEC 60947-7-1)

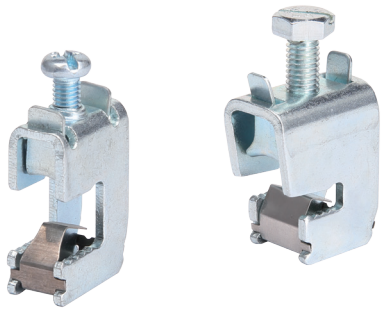
CE

Type	A	B	d	s	Clamp type	Cross-section [mm²]	I_{max} (35°C) (DIN 43670) [A]
PV 1/8	65	20	8,5	3	VD 120 (10-120)	60	237
PV 1/10	65	20	10,5	3	VD 120 (10-120)	60	237
PV 2/8	72	25	8,5	3	VN 300 (16-300) VD 300 (50-240)	75	287
PV 2/10	72	25	10,5	3	VN 300 (16-300) VD 300 (50-240)	75	287
PV 2/12	72	25	13	3	VN 300 (16-300) VD 300 (50-240)	75	287
PV 3/8	72	25	8,5	4	VN 300 (16-300) VD 300 (50-240)	100	319
PV 3/10	72	25	10,5	4	VN 300 (16-300) VD 300 (50-240)	100	319
PV 3/12	72	25	13	4	VN 300 (16-300) VD 300 (50-240)	100	319

Busbar clamps, C2 type

FEATURES & BENEFITS

- new, upgraded design of popular C-type terminals.
- pressing plate facilitating terminal pre-fitting on the busbars
- clamps for direct mounting on 5 or 10 mm thick busbars
- cables with multi-wire conductors can be connected directly

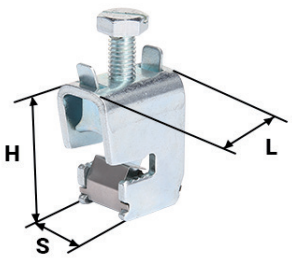


LOGISTIC DATA

Quantity in package [pcs]	12

APPLICATION

Connecting cables to busbars in LV switchboards.



MECHANICAL DATA

Material	galvanized steel

Type	Tightening torque [Nm]	Cross-section [mm²]	Rated busbar thickness [mm]	H	L	S
C2-5/16	3	1,5÷16	5	26	22	12
C2-5/35	6÷8	4÷35	5	31	29	16
C2-5/70	10÷12	16÷70	5	39	31	21
C2-5/120	12÷15	16÷120	5	44	34	24
C2-5/185	12÷15	50÷185	5	55	35	29
C2-10/16	3	1,5÷16	10	31	22	12
C2-10/35	6÷8	4÷35	10	37	29	16
C2-10/70	10÷12	16÷70	10	43	31	21
C2-10/120	12÷15	16÷120	10	48	34	24
C2-10/185	12÷15	50÷185	10	55	35	29

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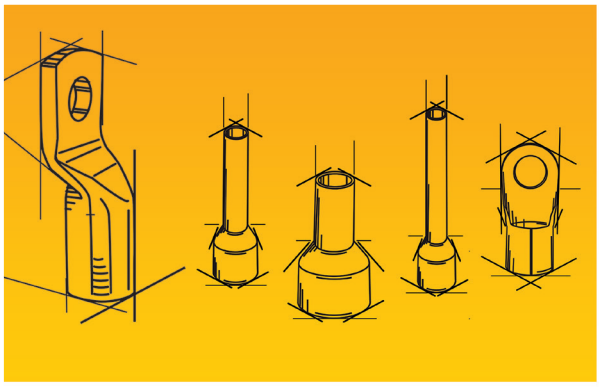
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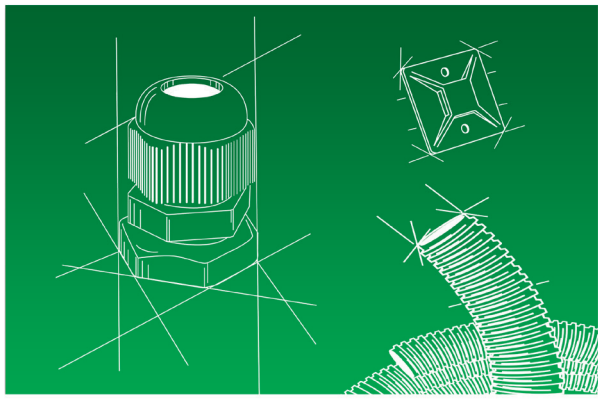
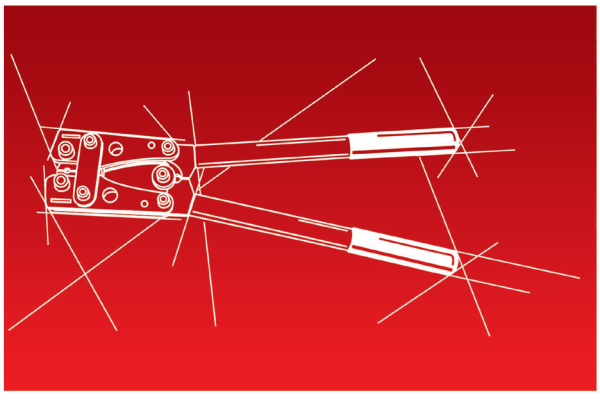
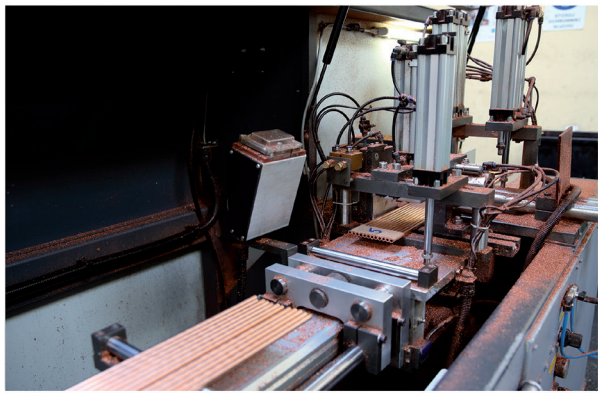
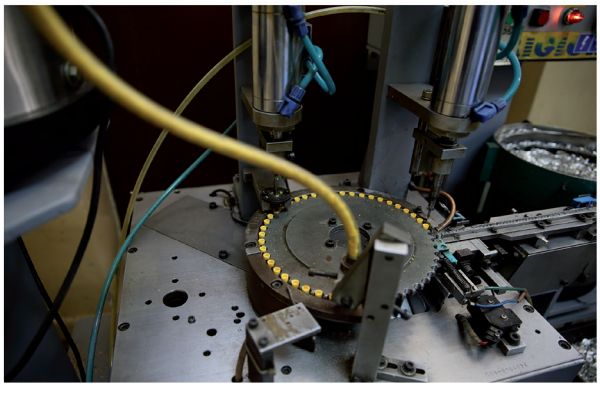
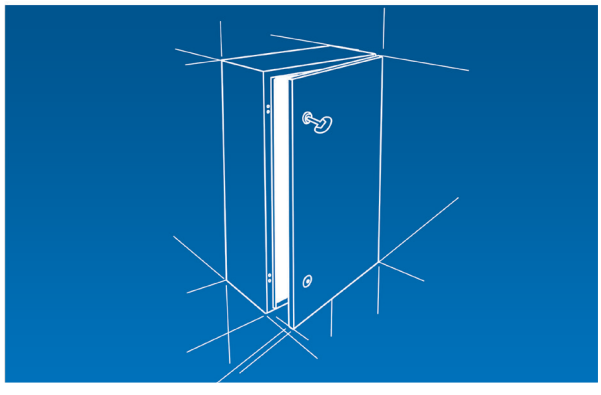
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