



WKK

FIXATION MATERIALS



Product catalogue 





WKK group: your specialist in fixation materials

Are you looking for the #1 supplier of fixation materials? WKK provides high-quality solutions for fixing, connecting, insulating, guiding and protecting cables or other objects. Our products are sold to wholesalers and professionals in over 30 industries.

With more than 5.000 products, WKK offers you a complete assortment which comprises many different types of cable ties, heat shrink tubing, cable glands, crimp terminals, bootlace ferrules, fixation clips and other fixation materials. Our assortment is the result of more than 35 years of experience. This will undoubtedly help you to find the products that you are looking for.

Why WKK? Choose an experienced, flexible and reliable partner!

Our company delivers quality products at competitive prices. We mainly deliver from stock, guarantee fast and flexible deliveries, and offer an excellent service. Your needs and intended application(s) are our starting point. Our advisors make every effort to provide you with the best possible service.

- ✔ Extensive range available from stock
- ✔ Competitive prices
- ✔ Fast delivery throughout Europe
- ✔ Extensive and personal product advice based on more than 35 years of experience
- ✔ Products with private label possible
- ✔ Heat shrink tubing with customized printing and pre-cut lengths are available
- ✔ Via our customer portal you have 24/7 access to our product data and insight in our stock levels, your own prices, order history and personal data



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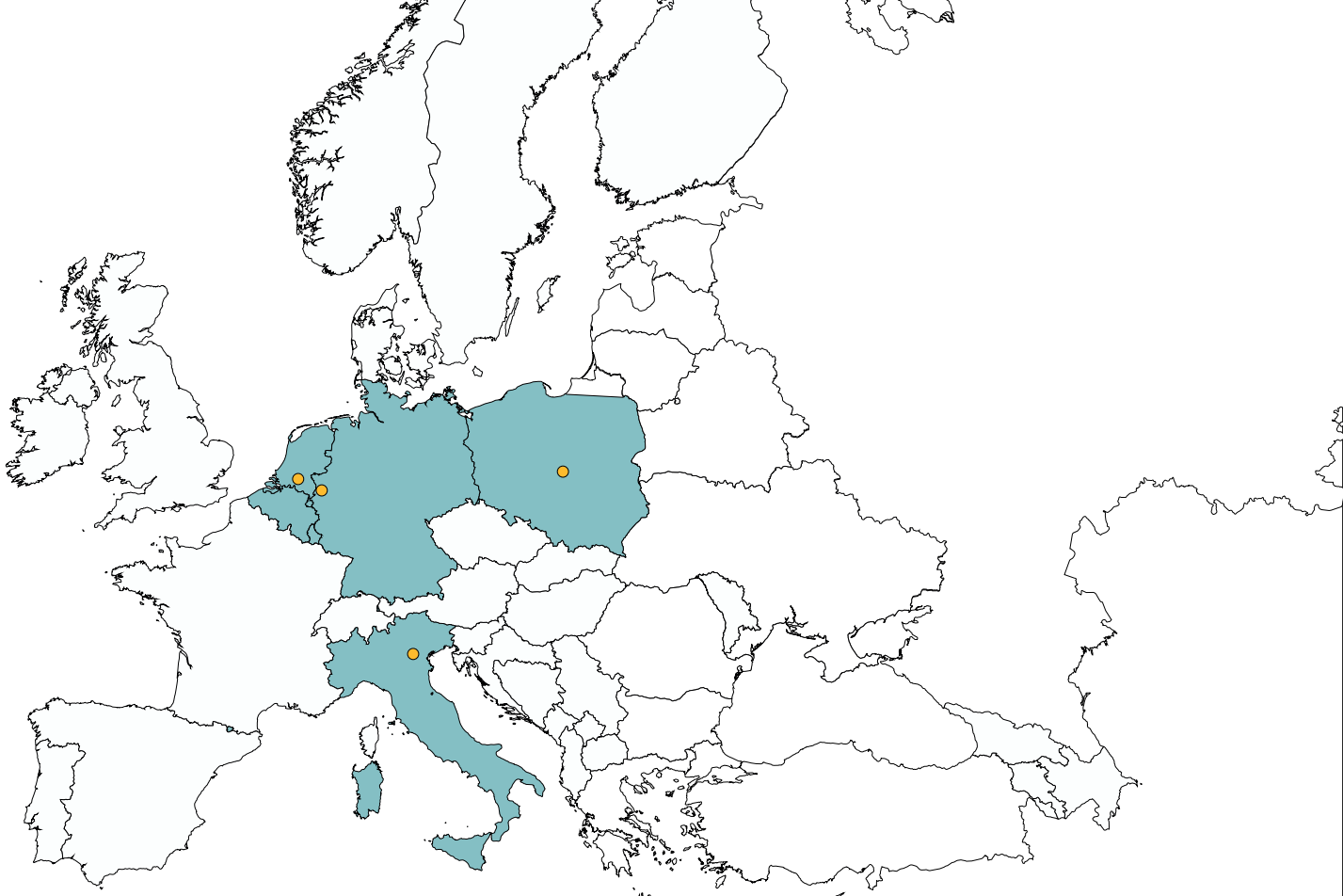
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About WKK

The WKK Group is a renowned international company in Europe that offers high-quality solutions for fixing, connecting, insulating, guiding and protecting cables or other objects. Our group consists of two divisions: Fixation materials and Automotive. Both divisions serve companies throughout Europe. The Fixation materials division has offices in the Netherlands, Germany, Italy and Poland. The Automotive division operates from Germany and has a subsidiary in Shanghai to serve the Chinese market.

Division Fixation materials

WKK Nederland B.V. (also the head office) is part of the Fixation materials division and is an international importer and distributor specialized in the field of technical fixation materials for various industries. Cable ties (also known as zip ties), heat shrink tubing and cable glands are our main product groups. In addition, we can also provide wholesalers and professionals with crimp terminals, cable end-sleeves, fixation clips and other fixation materials. Every day, more than 100 employees ensure that our customers in Europe receive tailored advice, high-quality products and excellent service.

Europe's largest importer and distributor of cable ties (including the brands Ty-Rap® and Ty-Fast®)

Since the foundation in 1984, WKK has been working with a successful purchasing strategy for cable ties. By ordering large quantities of high-quality cable ties from selected, long-standing suppliers on a weekly basis, WKK has grown to become Europe's largest importer and distributor of cable ties. This means that we can supply almost all different types of cable ties at the most favorable conditions.

Did you know that WKK is an official distributor of ABB Wire and Cable Management and that we can also provide you with cable ties from the world famous brands Ty-Rap® and Ty-Fast®?

European importer and distributor of Hongshang heat shrink tubing and accessories

Since 2010, WKK has been an authorized importer and distributor of heat shrink tubing and accessories of the Asian quality brand Hongshang. This gives us the opportunity to provide customers throughout Europe with a wide and deep range of heat shrinkable products such as thin-wall, medium-wall and heavy-wall heat shrink tubing, cable end caps, cable breakouts and cable feed throughs. In short, our heat shrinkable products offer you a solution for a wide variety of applications.

Official distributor of Jacob cable glands and accessories

The main purpose of cable glands is to ensure a safe cable entry. WKK offers cable glands and accessories from the company Jacob, one of the largest cable gland specialists in the world. Our standard range of glands and accessories consists of: plastic / brass / stainless steel / spiral top / EMC and Ex cable glands, locknuts, screw plugs, enlargers, reductions and many other products. Of course, the majority of these products are available in the well-known thread types Metric and Pg, and are available in multiple colors. In addition to our standard range of cable glands and accessories, we can also supply all other Jacob products.



Our history

1984

Founding of WKK Nederland B.V. by Mr. Edward Willems and Mr. Jozef Kouwenberg.

1992

Founding of German subsidiary WKK GmbH.

2002

Founding of Polish subsidiary WKK Polska Sp. z o. o.

2008

Founding of Italian subsidiary WKK Italy s.r.l.

2009

Founding of subsidiary WKK Automotive GmbH. This subsidiary focuses on the development and production of plastic fixation clips for the automotive and solar industry.

2010

Appointed as authorised European importer and distributor of Hongshang heat shrink tubing and accessories.

2011

Founding of Chinese subsidiary WKK Shanghai. This subsidiary focuses on the assembly of special fixation clips for the automotive and solar industry.

2014

Appointed as official partner of Jacob GmbH: one of the largest cable gland specialists in the world.

2017

Appointed as official partner of ABB Wire and Cable Management which makes WKK an official distributor of cable ties of the world famous brands Ty-Rap® and Ty-Fast®.

2020

Construction of a new building for the WKK head office.

2021

Launch WKK webshop + customer portal.

2022

Construction of a new building for WKK GmbH.



Why WKK

Are you looking for a reliable partner for the supply of your fixation materials and do you find it difficult to make the right choice from the various suppliers? At WKK we are happy to talk to you about what we stand for, what benefits we offer you as a customer and why you should choose WKK as your partner.

Attractive prices

WKK purchases large quantities of fixation materials every week from leading manufacturers with whom long-term relationships have been built. This gives us favorable purchasing conditions, which enables us to offer you attractive prices as a customer. To view these prices, visit our webshop or contact one of our advisors for a quote.

Fast delivery throughout Europe

WKK mainly supplies from stock. From our 3 warehouses with more than 10,000 pallet places, we are able to deliver orders fast throughout Europe. Long-term partnerships with our carriers provide WKK with favorable delivery conditions and rates, but delivery by your own carrier is of course no problem. Naturally, WKK delivers to all European countries (Ex Works).

High-quality products

Reliability and quality are of paramount importance at WKK. That is why we only supply high-quality products. We devote a lot of time and attention to the quality control and improvement of our products, services and employees and we are ISO 9001:2015 certified. By testing our products in-house, we can supply products of the highest quality. For example, we test cable ties for tensile strength and we measure the moisture percentage to prevent any problems during the use of the cable ties. Finally, we offer you the possibility to request samples from us, so you can test our products for your specific application(s).

Extensive and personal product advice based on more than 35 years of experience

We are happy to share the expertise that WKK has built up in more than 35 years of working with our customers. The knowledge of WKK is of great added value in the field of installation, maintenance and repair. Our advisors know better than anyone else the differences in quality and application and are happy to give you extensive and personal advice on the most suitable fixation materials for the application(s) you want. Feel free to contact one of our advisors.





Products with private label

Does your company market fixation materials under its own brand name or do you want your fixation materials to have its own brand name? WKK is capable of providing your products with a private label that is tailored to your wishes. It saves you a lot of time, energy and cost for taking care of the handling regarding your products. This allows you to realize price advantages in the long term. In addition, with your own brand name you ensure recognisability and distinctiveness from your competitors. Feel free to discuss the possibilities with one of our advisors.



Flexible delivery with call orders

Do you want to order your products in a flexible way? WKK offers you the possibility to deliver orders on demand at fixed prices. This makes it easy to switch when your warehouse has (temporarily) insufficient storage capacity, when an order has a long lead time or when you want to be sure of stock. You can have your orders delivered on demand or we can schedule the deliveries at fixed times. This makes your internal processes more efficient and saves you cost in the short and long term. Contact one of our advisors to discuss your delivery requirements.



Custom-made products

Do you have specific product wishes? We are happy to discuss the options with you. For example, custom-made automotive / solar clips, printing of heat shrink tubing and pre-cut lengths heat shrink tubing are all possible. We can also provide you with assortment boxes with heat shrink tubing, crimp terminals, cable end-sleeves and fixation clips. Compiling special action packages is also something we can offer. Click here for more information.



Ease of ordering

Are you dealing with simple or repetitive orders? And do you need an online solution to order quickly and easily? The WKK customer portal offers you ease of ordering. Through our customer portal you have 24/7 access to our product data and you have insight into stocks, your own prices, order history and data. The portal makes ordering your items easy and fast. To access our customer portal, scan the QR-code.





1. Cable ties and accessories



1.1 Cable ties information

Polyamide 6.6

Polyamide 6.6 is resistant to shocks, chemicals, oils, and offers limited resistance to certain acids. In addition, this material can withstand varying temperatures. The black variant is also UV resistant, and is therefore perfectly suited for outdoor use. The other colors are more suited for indoor use.

Common applications:

- Automotive industry
- Panel construction
- Control cabinets
- Non-residential construction
- Industrial installations
- Installation industry

Polyamide 4.6

Polyamide 4.6 has nearly the same properties as polyamide 6.6, but can be used in temperatures of up to 130 °C, with peak temperatures of up to 150 °C. The mechanical properties of PA 4.6 are not influenced by temperature as much as is the case with other polyamides.

Common applications:

- Automotive industry (within the engines)
- Electrical engines
- Turbines

Polyamide 12

Polyamide 12 is exceptionally flexible (even at low temperatures) and offers better resistance to chemicals than polyamide 6.6. Polyamide 12 also absorbs water to a lesser degree and at a slower rate, making the material relatively insensitive to environmental influences. In addition, polyamide 12 has better impact resistance and is resistant to UV radiation, making the material very suitable for outdoor use.

Common applications:

- Solar industry
- Offshore industry
- Landscaping- and gardening industry
- Outdoor events

Polypropylene

Polypropylene is a material which is resistant to chemicals, and offers better resistance to acids, salts and alcohol. Due to its low density (this material absorbs no moisture / liquids), liquids will remain on the surface of this plastic. Also, due to the low density and low weight of this material, polypropylene floats on liquids.

Common applications:

- Chemical process industry

Polyamide 6.6 heat resistant

Heat resistant polyamide 6.6 has the same properties as standard polyamide 6.6, but this material type offers resistance to higher temperatures of up to 120 °C. Products made of this material are available in the colors black and natural. The black heat resistant polyamide 6.6 material is also UV resistant, making them suitable for outdoor use. The natural color is mostly used indoor.

Common applications:

- Automotive industry (within the engine)
- Mechanical engineering

Polyamide 6.6 detectable

'Detectable' polyamide 6.6 has the same properties as polyamide 6.6, but contains a high concentration of small metal parts, making this material detectable by an X-ray system. This material is mostly used to minimize the risk of pollution in the production of food products. Only available in the color blue. The blue color makes them more easily identifiable.

Common applications:

- Food-, meat-, dairy- and beverages industry
- Medical industry
- Pharmaceutical industry
- Biotechnological industry
- Cosmetics industry

Ethylene-tetrafluoroethylene (ETFE, Tefzel®)

ETFE-, Tefzel® is resistant to chemicals, gamma radiation, ultraviolet radiation and radioactive radiation, making this material even suitable for use in nuclear power plants. In addition to these properties, this material is also resistant to high temperatures of up to 170 °C.

Common applications:

- Nuclear power plants
- Chemical processing plants

Stainless steel

Stainless steel is often used in 'heavy duty' environments, where outside influences such as vibrations, corrosion, weathering, radiation or extreme temperatures might affect the material. Stainless steel is available in two material qualities: 304 and 316. 304 is best suited for all regular applications, while 316 offers resistance to saltwater corrosion. Both material qualities are available coated and uncoated. The coated material offers excellent insulation and protection for cables and pipes. The downside is the fact that coated stainless steel cannot be used in the same wide temperature range that uncoated stainless steel can be used in.

Common applications:

- Petrochemical industry
- Mining
- Offshore
- Food industry
- Ship-building industry

Material	Operation temperature (°C)		Installation temperature (°C)		Flammability class	Halogen-free	Silicone-free	UV resistant
	min.	max.	min.	max.				
Polyamide 6.6	-40	+85	-10	+85	UL94-V2	Yes	Yes	Yes, only black
Polyamide 6.6 heat resistant	-40	+120	-10	+120	UL94-V2	Yes	Yes	Yes, only black
Polyamide 6.6 detectable	-40	+85	0	+85	UL94-HB	Yes	Yes	No
Polyamide 4.6	-40	+130	-10	+130	UL94-V2	Yes	Yes	Yes, only black
Polyamide 12	-40	+85	-30	+85	UL94-HB	Yes	Yes	Yes
Polypropylene	-20	+75	-20	+75	UL94-HB	Yes	Yes	No
Ethylene-tetrafluoroethylene (ETFE, Tefzel®)	-60	+170	-20	+170	UL94-V0	Yes	No	Yes
Stainless steel 304 & 316 uncoated	-80	+538	-80	+538	Not flammable	Yes	Yes	Yes
Stainless steel 304 & 316 coated	-40	+150	-40	+150	Not flammable	Yes	Yes	Yes

Disclaimer: Minimal deviations are possible in both width and length of the cable tie.

Additional options:

- WKK can provide cable ties with private labeling
- Cable ties can be provided in different packing quantities than the standard listed quantities
- Cable ties can be printed according to your request

For any special request, color, size or type which is not listed in the catalogue, please contact our sales department for the possibilities.

Installation of cable ties:

In order to guarantee optimal quality, the cable tie has to be installed correctly. WKK advises to use a cable tie installation tool. In the table below, we have listed which cable tie installation tool is best suited per material and cable tie width:

Material	Cable tie width (mm)	Minimal tensile strength (kg)	Article number tool
Plastic	2.5	8.1	1012411
Plastic	3.6	18.2	1012411
Plastic	4.8	22.2	1012411
Plastic	7.6	54.4	101211411
Plastic	9.0	79.4	101211411
Stainless steel	4.6 uncoated	90.0	10123011
Stainless steel	7.9 uncoated	160.0	10123011
Stainless steel	4.6 coated	45.0	1012511
Stainless steel	7.9 coated	80.0	1012511

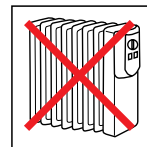
The complete specifications of the installation tools mentioned above can be found on pages 32 & 33.

Storage and usage advice:

- Polyamide is a hygroscopic plastic, which means that the material can absorb moisture, but can also dry out.
- For optimal application of polyamide cable ties it is important that they have a moisture content of at least 2.5%.
- When storing the cable ties, do not open the bag. When you open a bag, try to use the cable ties as soon as possible to preserve the moisture and flexibility of the cable ties. If cable ties are taken out of the bag, make sure they are used / installed as soon as possible.
- Temperatures above +50 °C and below -3 °C will cause cable ties to harden due to the decreasing amount of moisture in the cable ties. This means that the cable tie / head of cable tie / tongue in the cable tie can break.
- Ideal storage conditions: +23 °C and 50% relative humidity
- If the temperature is below 0 °C, the cable ties should not be kept in the cold overnight.
- If cable ties are stored overnight or longer in a cold room (below 0 °C), they should be left at room temperature for at least 24 hours to allow them to acclimate.



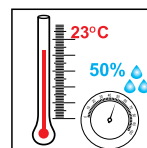
Always store cable ties in sealed plastic bags made of PE. Once opened, you should use the cable ties as quickly as possible.



Keep cable ties away from direct heat sources. Avoid contact with heat. For example: do not place a packing on a radiator.



Do not store cable ties in sunlight. For example: on the dashboard of your car / delivery van.



The ideal storage conditions are 23 °C, 50% relative humidity.

Plastic cable ties - For universal use



Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Approvals	: UL E537734, Reach, RoHS, CE
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ● Grey= ● Yellow= ● Green= ● Blue= ● Purple= ● Brown= ● Red= ● Orange= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)	
						PU 100 pcs.	PU 1.000 pcs.
80x2.4mm	80	2.4	15	8.1	100 / 1.000	70.000	90.000
100x2.5mm	100	2.5	22	8.1	100 / 1.000	55.000	70.000
120x2.5mm	120	2.5	30	8.1	100 / 1.000	45.000	65.000
140x2.5mm	140	2.5	33	8.1	100 / 1.000	45.000	55.000
160x2.5mm	160	2.5	40	8.1	100 / 1.000	40.000	45.000
200x2.5mm	200	2.5	53	8.1	100 / 1.000	30.000	32.000
140x3.6mm	140	3.6	33	18.2	100 / 1.000	30.000	30.000
150x3.6mm	150	3.6	35	18.2	100 / 1.000	30.000	30.000
200x3.6mm	200	3.6	53	18.2	100 / 1.000	20.000	22.000
300x3.6mm	300	3.6	76	18.2	100 / 1.000	17.000	17.000
370x3.6mm	370	3.6	102	18.2	100 / 1.000	12.000	12.000
120x4.8mm	120	4.8	24	22.2	100 / 1.000	20.000	25.000
160x4.8mm	160	4.8	38	22.2	100 / 1.000	16.000	18.000
190x4.8mm	190	4.8	46	22.2	100 / 1.000	16.000	16.000
200x4.8mm	200	4.8	50	22.2	100 / 1.000	16.000	16.000
250x4.8mm	250	4.8	60	22.2	100 / 1.000	12.000	12.000
280x4.8mm	280	4.8	70	22.2	100 / 1.000	11.000	11.000
300x4.8mm	300	4.8	76	22.2	100 / 1.000	11.000	11.000
370x4.8mm	370	4.8	102	22.2	100	9.000	-
390x4.8mm	390	4.8	105	22.2	100	8.500	-
430x4.8mm	430	4.8	110	22.2	100	7.500	-
530x4.8mm	530	4.8	140	22.2	100	5.600	-
150x7.6mm	150	7.6	33	54.4	100	8.000	-
200x7.6mm	200	7.6	50	54.4	100	7.000	-
250x7.6mm	250	7.6	65	54.4	100	6.000	-
300x7.6mm	300	7.6	76	54.4	100	5.000	-
370x7.6mm	370	7.6	102	54.4	100	4.000	-
450x7.6mm	450	7.6	132	54.4	100	2.500	-
530x7.6mm	530	7.6	140	54.4	100	2.000	-
615x7.6mm	615	7.6	176	54.4	100	2.000	-
750x7.6mm	750	7.6	218	54.4	100	2.000	-
430x9.0mm	430	9.0	110	79.4	100	2.500	-
530x9.0mm	530	9.0	140	79.4	100	2.000	-
610x9.0mm	610	9.0	187	79.4	100	2.000	-
710x9.0mm	710	9.0	190	79.4	100	2.000	-
780x9.0mm	780	9.0	228	79.4	100	2.000	-
830x9.0mm	830	9.0	239	79.4	100	1.500	-

Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)	
						PU 100 pcs.	PU 1.000 pcs.
920x9.0mm	920	9.0	263	79.4	100	1.200	-
1020x9.0mm	1020	9.0	295	79.4	100	1.000	-
1.220x9.0mm	1.220	9.0	365	79.4	100	1.000	-
1530x9.0mm	1530	9.0	460	79.4	100	500	-
230x13.0mm	230	13.0	50	114.0	100	3.000	-
480x13.0mm	480	13.0	120	114.0	100	1.500	-
580x13.0mm	580	13.0	152	114.0	100	1.200	-
730x13.0mm	730	13.0	204	114.0	100	1.000	-
880x13.0mm	880	13.0	248	114.0	100	600	-
1030x13.0mm	1030	13.0	295	114.0	100	600	-

Plastic cable ties - Heat resistant (up to 120 °C)



Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +120 °C
Flammability class	: UL 94 V-2
Approvals	: Reach, RoHS
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural (green colored) = ○ Black (UV resistant) = ●



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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)	
						PU 100 pcs.	PU 1.000 pcs.
HEAT RES. 100x2.5mm	100	2.5	22	8.1	100 / 1.000	55.000	70.000
HEAT RES. 120x2.5mm	120	2.5	30	8.1	100 / 1.000	45.000	65.000
HEAT RES. 140x2.5mm	140	2.5	33	8.1	100 / 1.000	45.000	55.000
HEAT RES. 160x2.5mm	160	2.5	40	8.1	100 / 1.000	40.000	45.000
HEAT RES. 200x2.5mm	200	2.5	53	8.1	100 / 1.000	30.000	32.000
HEAT RES. 140x3.6mm	140	3.6	33	18.2	100 / 1.000	30.000	30.000
HEAT RES. 200x3.6mm	200	3.6	53	18.2	100 / 1.000	20.000	22.000
HEAT RES. 300x3.6mm	300	3.6	76	18.2	100 / 1.000	17.000	17.000
HEAT RES. 370x3.6mm	370	3.6	102	18.2	100 / 1.000	12.000	12.000
HEAT RES. 200x4.8mm	200	4.8	50	22.2	100 / 1.000	16.000	16.000
HEAT RES. 300x4.8mm	300	4.8	76	22.2	100 / 1.000	11.000	11.000
HEAT RES. 370x4.8mm	370	4.8	102	22.2	100	9.000	-
HEAT RES. 430x4.8mm	430	4.8	110	22.2	100	7.500	-
HEAT RES. 200x7.6mm	200	7.6	50	54.4	100	7.000	-
HEAT RES. 300x7.6mm	300	7.6	76	54.4	100	5.000	-
HEAT RES. 370x7.6mm	370	7.6	102	54.4	100	4.000	-

1.2 Cable ties WKK

Plastic cable ties - Resistant to higher temperatures (up to 130 °C) - PA 4.6



Technical specifications

Brand	: WKK
Material	: Polyamide 4.6
Operating temperature (°C)	: -40 °C up to +130 °C
Flammability class	: UL 94 V-2
Approvals	: Reach, RoHS
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Yellow/brown= ● : Black on request= ●



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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
PA4.6 100x2.5	100	2.5	20.5	8.1	100	55.000
PA4.6 200x3.6	200	3.6	52.5	18.2	100	20.000
PA4.6 200x4.8	200	4.8	49.5	22.2	100	16.000
PA4.6 370x4.8	370	4.8	102	22.2	100	9.000

Plastic cable ties - Solar cable tie - UV & weather resistant - PA 12



Technical specifications

Brand	: WKK
Material	: Polyamide 12
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 HB
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●



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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
PA12 100x2.5mm	100	2.5	20.5	8.0	100	55.000
PA12 150x3.6mm	150	3.6	36.0	18.0	100	30.000
PA12 200x3.6mm	200	3.6	52.5	18.0	100	20.000
PA12 200x4.8mm	200	4.8	49.5	23.0	100	16.000
PA12 300x4.8mm	300	4.8	81.0	23.0	100	11.000
PA12 370x4.8mm	370	4.8	102.0	23.0	100	9.000
PA12 370x7.6mm	370	7.6	103.5	54.0	100	4.000

Plastic cable ties - Resistant to chemicals, radiation and extreme temperatures (up to 170 °C) - Tefzel®



Technical specifications

Brand	: WKK
Material	: Ethylene-tetrafluorethylene (ETFE)
Operating temperature (°C)	: -40 °C up to +170 °C
Flammability class	: UL 94 V-0
Approvals	: UL, Reach, RoHS, CE
Halogen-free	: Yes
Silicone-free	: No
Available colors	: Blue= ● : Black on request= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
TEFZEL 102x2.4mm	102	2.4	22	8.2	100	30.000
TEFZEL 150x3.6mm	150	3.6	35	18.2	100	14.000
TEFZEL 200x3.6mm	200	3.6	53	18.2	100	12.000
TEFZEL 200x4.6mm	200	4.6	50	22.6	100	10.000
TEFZEL 300x4.8mm	300	4.8	76	22.6	100	6.000
TEFZEL 300x7.3mm	300	7.3	76	45.4	100	2.500
TEFZEL 370x7.4mm	370	7.4	102	45.4	100	2.000
TEFZEL 435x8.8mm	435	8.8	122	45.4	100	2.500

Plastic cable ties - Resistant to chemicals - Floats on liquids - Polypropylene



Technical specifications

Brand	: WKK
Material	: Polypropylene
Operating temperature (°C)	: -20 °C up to +75 °C
Flammability class	: UL 94 HB
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Green= ● : White on request= ○

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
POLYPROP. 100x2.5mm	100	2.5	20.5	5.0	100	55.000
POLYPROP. 150x3.6mm	150	3.6	36.0	8.1	100	30.000
POLYPROP. 200x4.8mm	200	4.8	49.5	13.7	100	16.000
POLYPROP. 300x4.8mm	300	4.8	81.0	13.7	100	11.000
POLYPROP. 370x4.8mm	370	4.8	103.5	13.7	100	9.000
POLYPROP. 370x7.6mm	370	7.6	102.5	23.4	100	4.000

Plastic cable ties with metal pigments - Detectable

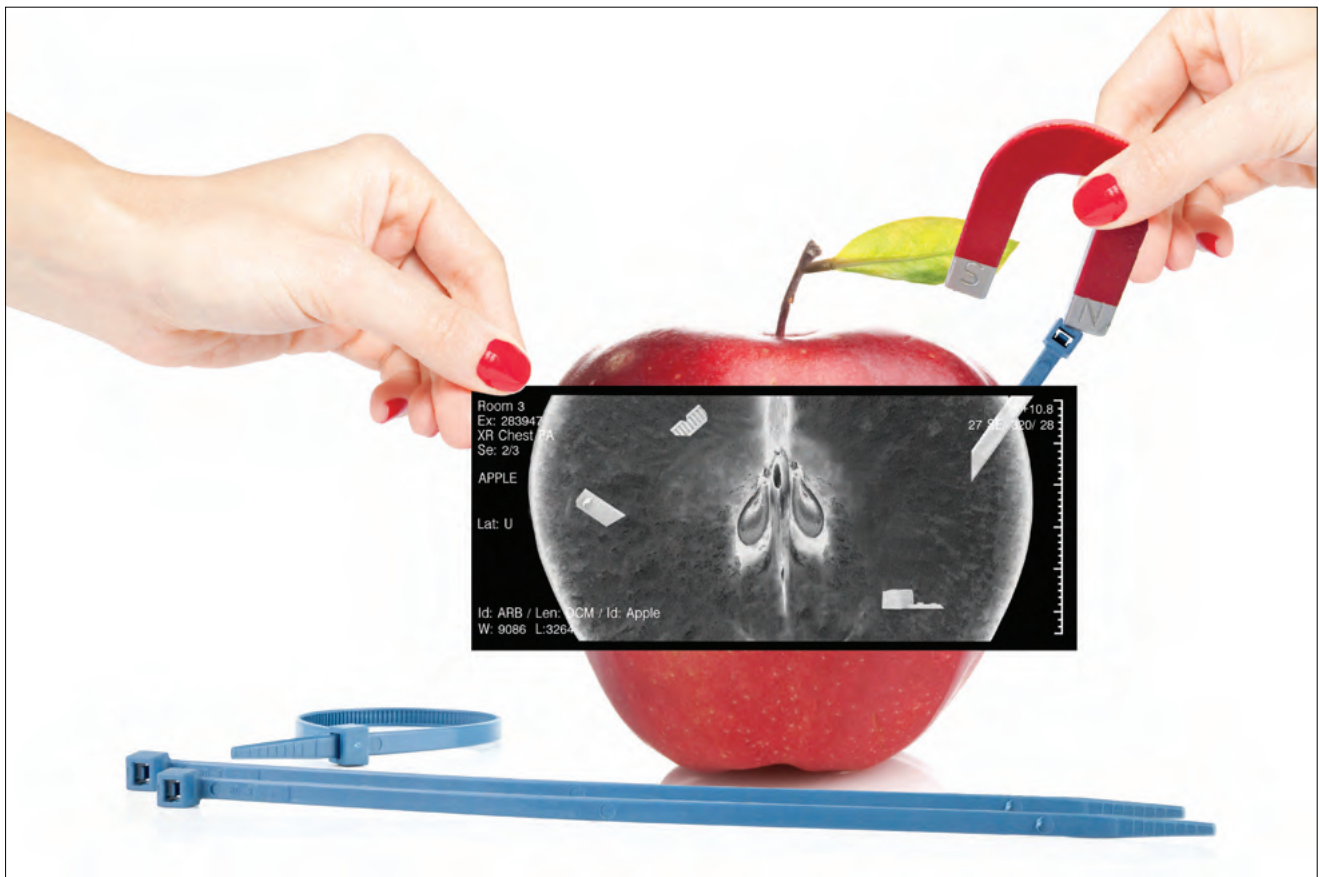


Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 HB
Approvals	: FDA, Reach, RoHS
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Blue= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
DETECTABLE 100x2.5mm	100	2.5	20.5	8	100	50.000
DETECTABLE 150x3.6mm	150	3.6	36.0	18	100	30.000
DETECTABLE 200x3.6mm	200	3.6	52.5	18	100	10.000
DETECTABLE 200x4.8mm	200	4.8	49.5	23	100	10.000
DETECTABLE 300x4.8mm	300	4.8	81.0	23	100	5.000
DETECTABLE 370x4.8mm	370	4.8	103.5	23	100	5.000
DETECTABLE 370x7.6mm	370	7.6	103.5	55	100	2.500



Plastic cable ties - GTN Belt cable tie - Polyamide 6.6



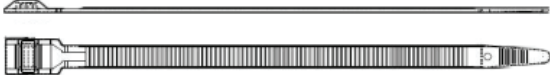
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Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Approvals	: UL, RoHS
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●

Type no.	Type	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
							PU 100 pcs.
GTN PA6.6 180x8.0mm	1	180	8.0	40	40	100	5.000
GTN PA6.6 265x8.6mm	2	265	8.6	62	55	100	5.000
GTN PA6.6 300x8.6mm	2	300	8.6	80	55	100	2.500
GTN PA6.6 360x8.6mm	2	360	8.6	93	55	100	2.500
GTN PA6.6 510x8.6mm	2	510	8.6	140	55	100	1.000
GTN PA6.6 760x8.6mm	2	760	8.6	220	55	100	1.000

Type 1



Type 2



Plastic cable ties - GTN Belt cable tie - Polyamide 12



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Technical specifications

Brand	: WKK
Material	: Polyamide 12
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 HB
Approvals	: UL, RoHS
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●

Type no.	Type	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
							PU 100 pcs.
GTN PA12 180x8.0mm	1	180	8.0	40	40	100	5.000
GTN PA12 265x8.6mm	2	265	8.6	62	55	100	5.000
GTN PA12 300x8.6mm	2	300	8.6	80	55	100	2.500
GTN PA12 360x8.6mm	2	360	8.6	93	55	100	2.500

Type 1



Type 2



Stainless steel cable ties - Uncoated - AISI 304



Technical specifications

Brand	: WKK
Material	: Stainless steel - AISI 304
Operating temperature (°C)	: -80 °C up to +538 °C
Flammability class	: Not flammable
Approvals	: DNV-GL, UL, Reach, RoHS, CE
Halogen-free	: Yes
Silicone-free	: Yes

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
ST.STEEL 125x4.6mm 304	125	4.6	38	90	100	5.000
ST.STEEL 200x4.6mm 304	200	4.6	62	90	100	5.000
ST.STEEL 290x4.6mm 304	290	4.6	91	90	100	5.000
ST.STEEL 360x4.6mm 304	360	4.6	113	90	100	2.500
ST.STEEL 520x4.6mm 304	520	4.6	164	90	100	2.000
ST.STEEL 680x4.6mm 304	680	4.6	215	90	100	2.500
ST.STEEL 840x4.6mm 304	840	4.6	266	90	100	2.500
ST.STEEL 1.220x4.6mm 304	1.220	4.6	365	90	100	1.000
ST.STEEL 200x7.9mm 304	200	7.9	62	160	100	2.500
ST.STEEL 290x7.9mm 304	290	7.9	91	160	100	2.500
ST.STEEL 360x7.9mm 304	360	7.9	113	160	100	2.500
ST.STEEL 450x7.9mm 304	450	7.9	141	160	100	1.500
ST.STEEL 520x7.9mm 304	520	7.9	164	160	100	1.000
ST.STEEL 680x7.9mm 304	680	7.9	215	160	100	1.000
ST.STEEL 840x7.9mm 304	840	7.9	266	160	100	1.000
ST.STEEL 1020x7.9mm 304	1020	7.9	320	160	100	1.000



Stainless steel cable ties - Uncoated - AISI 316L

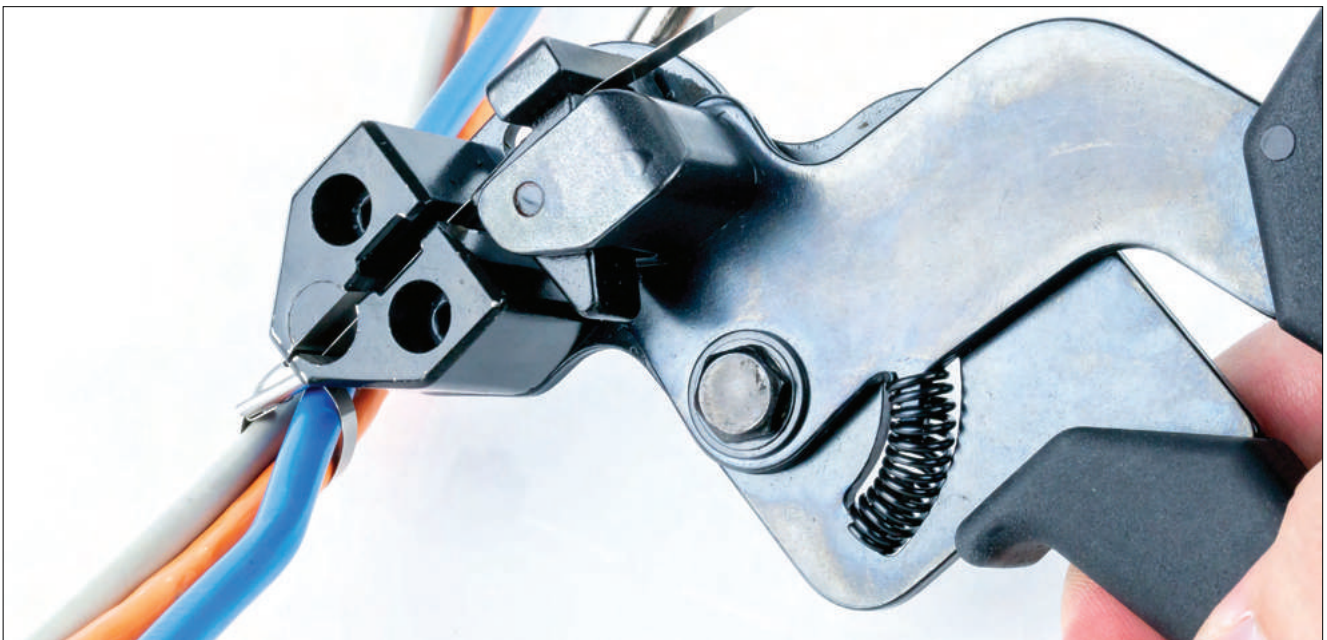


Technical specifications

Brand	: WKK
Material	: Stainless steel - AISI 316L
Operating temperature (°C)	: -80 °C up to +538 °C
Flammability class	: Not flammable
Approvals	: DNV-GL, UL, Reach, RoHS, CE
Halogen-free	: Yes
Silicone-free	: Yes

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
ST.STEEL 125x4.6mm 316	125	4.6	38	90	100	5.000
ST.STEEL 200x4.6mm 316	200	4.6	62	90	100	5.000
ST.STEEL 290x4.6mm 316	290	4.6	91	90	100	5.000
ST.STEEL 360x4.6mm 316	360	4.6	113	90	100	2.500
ST.STEEL 520x4.6mm 316	520	4.6	164	90	100	2.000
ST.STEEL 680x4.6mm 316	680	4.6	215	90	100	2.500
ST.STEEL 840x4.6mm 316	840	4.6	266	90	100	2.500
ST.STEEL 1.220x4.6mm 316	1.220	4.6	365	90	100	1.000
ST.STEEL 200x7.9mm 316	200	7.9	62	160	100	2.500
ST.STEEL 290x7.9mm 316	290	7.9	91	160	100	2.500
ST.STEEL 360x7.9mm 316	360	7.9	113	160	100	2.500
ST.STEEL 450x7.9mm 316	450	7.9	141	160	100	1.500
ST.STEEL 520x7.9mm 316	520	7.9	164	160	100	1.000
ST.STEEL 680x7.9mm 316	680	7.9	215	160	100	1.000
ST.STEEL 840x7.9mm 316	840	7.9	266	160	100	1.000
ST.STEEL 1020x7.9mm 316	1020	7.9	320	160	100	1.000



Stainless steel cable ties - Coated - AISI 304



Technical specifications

Brand	: WKK
Material	: Stainless steel - Coated - AISI 304
Material coating	: Polyester
Operating temperature (°C)	: -40 °C up to +150 °C
Flammability class	: Not flammable
Approvals	: DNV-GL, UL, Reach, RoHS, CE
Halogen-free	: Yes
Silicone-free	: Yes

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
ST.STEEL 125x4.6mm COATED 304	125	4.6	38	45	100	5.000
ST.STEEL 200x4.6mm COATED 304	200	4.6	62	45	100	5.000
ST.STEEL 290x4.6mm COATED 304	290	4.6	91	45	100	5.000
ST.STEEL 360x4.6mm COATED 304	360	4.6	113	45	100	2.500
ST.STEEL 520x4.6mm COATED 304	520	4.6	164	45	100	2.000
ST.STEEL 680x4.6mm COATED 304	680	4.6	215	45	100	2.500
ST.STEEL 840x4.6mm COATED 304	840	4.6	266	45	100	2.500
ST.STEEL 1.220x4.6mm COATED 304	1.220	4.6	365	45	100	1.000
ST.STEEL 200x7.9mm COATED 304	200	7.9	62	80	100	2.500
ST.STEEL 290x7.9mm COATED 304	290	7.9	91	80	100	2.500
ST.STEEL 360x7.9mm COATED 304	360	7.9	113	80	100	2.500
ST.STEEL 450x7.9mm COATED 304	450	7.9	141	80	100	1.500
ST.STEEL 520x7.9mm COATED 304	520	7.9	164	80	100	1.000
ST.STEEL 680x7.9mm COATED 304	680	7.9	215	80	100	1.000
ST.STEEL 840x7.9mm COATED 304	840	7.9	266	80	100	1.000
ST.STEEL 1020x7.9mm COATED 304	1020	7.9	320	80	100	1.000

Stainless steel cable ties - Coated - AISI 316L



Technical specifications

Brand	: WKK
Material	: Stainless steel - Coated - AISI 316L
Material coating	: Polyester
Operating temperature (°C)	: -40 °C up to +150 °C
Flammability class	: Not flammable
Approvals	: DNV-GL, UL, Reach, RoHS, CE
Halogen-free	: Yes
Silicone-free	: Yes

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
ST.STEEL 125x4.6mm COATED 316	125	4.6	38	45	100	5.000
ST.STEEL 200x4.6mm COATED 316	200	4.6	62	45	100	5.000
ST.STEEL 290x4.6mm COATED 316	290	4.6	91	45	100	5.000
ST.STEEL 360x4.6mm COATED 316	360	4.6	113	45	100	2.500
ST.STEEL 520x4.6mm COATED 316	520	4.6	164	45	100	2.000
ST.STEEL 680x4.6mm COATED 316	680	4.6	215	45	100	2.500
ST.STEEL 840x4.6mm COATED 316	840	4.6	266	45	100	2.500
ST.STEEL 1.220x4.6mm COATED 316	1.220	4.6	365	45	100	1.000
ST.STEEL 200x7.9mm COATED 316	200	7.9	62	80	100	2.500
ST.STEEL 290x7.9mm COATED 316	290	7.9	91	80	100	2.500
ST.STEEL 360x7.9mm COATED 316	360	7.9	113	80	100	2.500
ST.STEEL 450x7.9mm COATED 316	450	7.9	141	80	100	1.500
ST.STEEL 520x7.9mm COATED 316	520	7.9	164	80	100	1.000
ST.STEEL 680x7.9mm COATED 316	680	7.9	215	80	100	1.000
ST.STEEL 840x7.9mm COATED 316	840	7.9	266	80	100	1.000
ST.STEEL 1020x7.9mm COATED 316	1020	7.9	320	80	100	1.000

Plastic cable ties - Releasable



Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

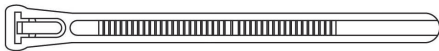
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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
						PU 100 pcs.
RELEASABLE 140x3.6mm	140	3.6	33	18.2	100	28.000
RELEASABLE 200x4.8mm	200	4.8	50	22.2	100	13.000
RELEASABLE 300x4.8mm	300	4.8	86	22.2	100	11.000
RELEASABLE 370x4.8mm	370	4.8	102	22.2	100	8.500
RELEASABLE 100x7.6mm	100	7.6	30	22.2	100	13.000
RELEASABLE 120x7.6mm	120	7.6	30	22.2	100	12.000
RELEASABLE 150x7.6mm	150	7.6	35	22.2	100	10.000
RELEASABLE 200x7.6mm	200	7.6	50	22.2	100	9.000
RELEASABLE 250x7.6mm	250	7.6	66	22.2	100	7.500
RELEASABLE 300x7.6mm	300	7.6	80	22.2	100	6.500
RELEASABLE 370x7.6mm	370	7.6	102	22.2	100	5.500

Width up to and including 4.8 mm



Width 7.6 mm



Plastic cable ties - Push mount

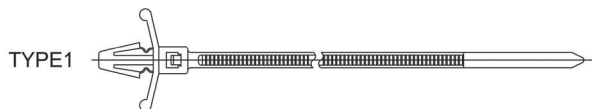


Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	Hole diameter (mm)	Panel thickness (mm)	Type	PU (pcs.)	PU (pcs.)	
									PU 100 pcs.	PU 1.000 pcs.
PUSH MOUNT 110x2.5mm	110	2.5	22	8.1	Ø 4.8	~ 2.4	1	100/1.000	22.000	28.000
PUSH MOUNT 130x3.2mm	130	3.2	28	13.6	Ø 4.0	~ 2.0	1	1.000	-	24.000
PUSH MOUNT 130x4.8mm	130	4.8	25	22.2	Ø 6.4	~ 3.2	1	100	10.000	-
PUSH MOUNT 170x4.8mm	170	4.8	38	22.2	Ø 6.4	~ 3.2	1	100/1.000	8.000	8.000
PUSH MOUNT 190x4.8mm	190	4.8	45	22.2	Ø 6.4	~ 3.2	1	1.000	-	8.000
PUSH MOUNT 150x3.6mm	150	3.6	32	13.6	Ø 5.2	~ 2.8	2	100/1.000	22.000	22.000
PUSH MOUNT 200x4.8mm	200	4.8	46	22.2	Ø 6.3	~ 3.6	2	1.000	-	12.000



1.2 Cable ties WKK

Plastic cable ties - With marker label

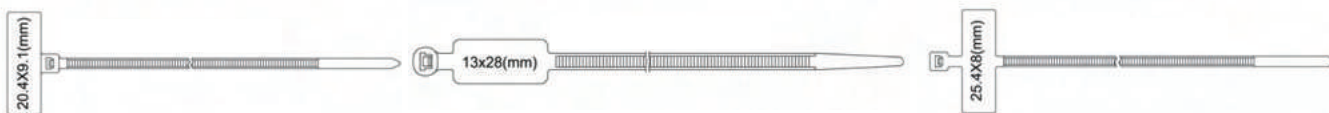


Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	Size (mm)	PU (pcs.)	PU (pcs.)	
							PU 100 pcs.	PU 1.000 pcs.
MT 100x2.5mm	100	2.5	18	8.1	25.4x8	100	28.000	-
MT 110x2.5mm	110	2.5	18	8.1	20.4x9.1	100	28.000	-
MT 200x2.5mm	200	2.5	50	8.1	25.4x8	100	20.000	-
MT 190x4.8mm	190	4.8	46	22.2	13x28	1.000	.	13.000
MT 220x4.8mm	220	4.8	54	22.2	13x28	100	13.000	-
MT 270x4.8mm	270	4.8	65	22.2	13x28	100	10.000	-
MT 300x4.8mm	300	4.8	76	22.2	13x28	100	10.000	-



Plastic cable ties - Button head (chassis)



Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)	Box contents (pcs.)
CHASSIS 370x7.6mm	370	7.6	101	65.0	100	2.000

Plastic cable ties - Screw mount



Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	Hole (mm)	PU (pcs.)	PU (pcs.)	
							PU 100 pcs.	PU 1.000 pcs.
EYE 110x2.5mm	110	2.5	22	8.1	Ø 3.2	100/1.000	40.000	40.000
EYE 150x3.6mm	150	3.6	32	18.2	Ø 4.2	100/1.000	20.000	22.000
EYE 200x4.8mm	200	4.8	50	22.2	Ø 5.5	100	11.000	-
EYE 370x4.8mm	370	4.8	102	22.2	Ø 5.5	100	8.000	-
EYE 200x7.6mm	200	7.6	50	54.4	Ø 5.7	100	6.000	-
EYE 313x7.6mm	313	7.6	76	54.4	Ø 5.7	100	4.500	-
EYE 382x7.6mm	382	7.6	98	54.4	Ø 6.3	100	3.500	-

Plastic cable ties - For air conditioner tubes

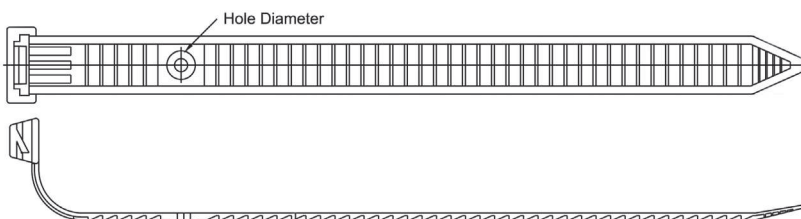


Technical specifications

Brand	: WKK
Material	: Polyethylene
Operating temperature (°C)	: -40 °C up to +80 °C
Flammability class	: UL 94 HB
Approvals	: RoHS
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Natural= ○

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	Thickness (mm)	Hole diameter (mm)	PU (pcs.)	Box contents (pcs.)
AIRCO 235x20mm	235	20.0	70	20	2.4	Ø 4.5	10	2.000
AIRCO 275x20mm	275	20.0	80	20	2.4	Ø 4.5	10	1.500



1.3 Cable tie accessories WKK

Self adhesive cable tie mounts for plastic cable ties

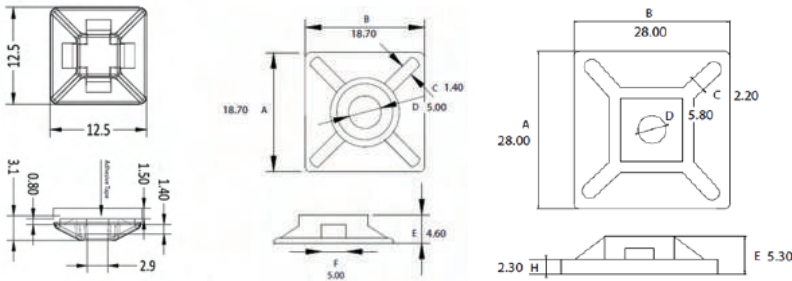


Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -30 °C up to +85 °C
Flammability class	: UL 94 V-2
Tape	: Adhesive rubber tape
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	A & B (mm)	E (mm)	For cable tie width up to (mm)	D (mm)	PU (pcs.)
MB 12x12mm	12.5	3.1	3.2	-	100
MB 19x19mm	18.7	4.6	4.0	∅ 5.0	100
MB 28x28mm	28.0	5.3	5.3	∅ 5.8	100



Saddle tie mounts for plastic cable ties - With screw mount

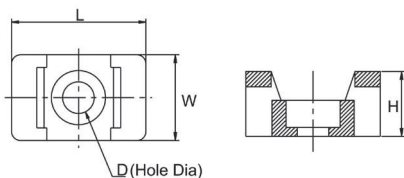


Technical specifications

Brand	: WKK
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	L (mm)	W (mm)	H (mm)	D (mm)	Tie width (mm)	PU (pcs.)
STM 2S6 14.9x9.5mm	14.9	9.5	7.2	∅ 3.7	4.8	100
STM 2S8 14.9x9.5mm	14.9	9.5	7.2	∅ 4.5	4.8	100 / 1.000
STM 3S8 21.9x15.9mm	21.9	15.9	9.7	∅ 4.5	7.6	100
STM 3S10 21.9x15.9mm	21.9	15.9	9.7	∅ 5.0	7.6	100 / 1.000
STM 3S25 21.9x15.9mm	21.9	15.9	9.7	∅ 6.4	7.6	100



Wallplug for plastic cable ties

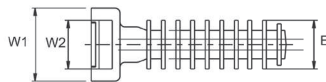
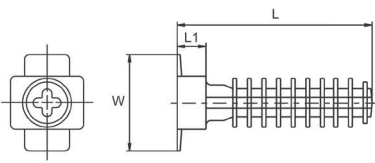


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Technical specifications

Brand	: WKK
Art. no.	: 111158071
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Available color	: Black= ●
* Also available without wings	

Type no.	L (mm)	L1 (mm)	W (mm)	W1 (mm)	W2 (mm)	E (mm)	PU (pcs.)
Wallplug	40.5	5.9	20.0	15	10	Ø 9.5	100



Storage rack for cable ties



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Technical specifications

Brand	: WKK
Art. no. empty	: 101311
Art. no. filled	: 1013011
Material	: Metal
Dimension (H x W x D)	: 303 x 212 x 72 mm
Number of compartments	: 5
Color rack	: White= ○

The filled version is filled with:

Length (mm)	Width (mm)	Color	PU (pcs.)
100	2.5	Black	100
140	3.6	Black	100
200	4.8	Black	100
300	4.8	Black	100
370	4.8	Black	100

1.4 Cable tie tools WKK

Cable tie installation tool - For plastic cable ties up to 4.8 mm wide - Ergonomic



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Technical specifications

Brand	: WKK
Art. no.	: 1012411
Color	: Black / Green
For cable tie type	: Plastic
Cable tie width	: Up to 4.8 mm
Tensile strength	: Adjustable
Cuts automatically	: Yes
Spare knife	: Yes
Weight (g)	: 224 grams
Dimensions L x W x H	: 190 x 140 x 36 mm
Maximum tensile strength	: 22.6 kg

Cable tie installation tool - For plastic cable ties up to 4.8 mm wide



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Technical specifications

Brand	: WKK
Art. no.	: 1012111
Color	: Black / Red
For cable tie type	: Plastic
Cable tie width	: Up to 4.8 mm
Tensile strength	: Adjustable
Cuts automatically	: Yes
Weight (g)	: 297 grams
Dimensions L x W x H	: 155 x 130 x 20 mm

Cable tie installation tool - For plastic cable ties between 3.6 and 10.6 mm wide



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Technical specifications

Brand	: WKK
Art. no.	: 101211411
Color	: Black / green
For cable tie type	: Plastic
Cable tie width	: From 3.6 to 10.6 mm
Tensile strength	: Not adjustable
Cuts automatically	: No
Weight (g)	: 310 grams
Dimensions L x W x H	: 200 x 100 x 20 mm

Cable tie installation tool - For uncoated stainless steel cable ties up to 7.96 mm wide



Technical specifications

Brand	: WKK
Art. no.	: 10123011
Color	: Grey
For cable tie type	: Uncoated stainless steel
Cable tie width	: Up to 7.96 mm
Tensile strength	: Adjustable
Cuts automatically	: Yes
Weight (g)	: 560 grams
Dimensions L x W x H	: 175 x 140 x 25 mm



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Cable tie installation tool - For coated & uncoated stainless steel cable tie up to 12 mm wide



Technical specifications

Brand	: WKK
Art. no.	: 1012511
Color	: Grey
For cable tie type	: Coated and uncoated stainless steel
Cable tie width	: Up to 12 mm
Tensile strength	: Not adjustable
Cuts automatically	: No
Weight (g)	: 560 grams
Dimensions L x W x H	: 200 x 130 x 40 mm



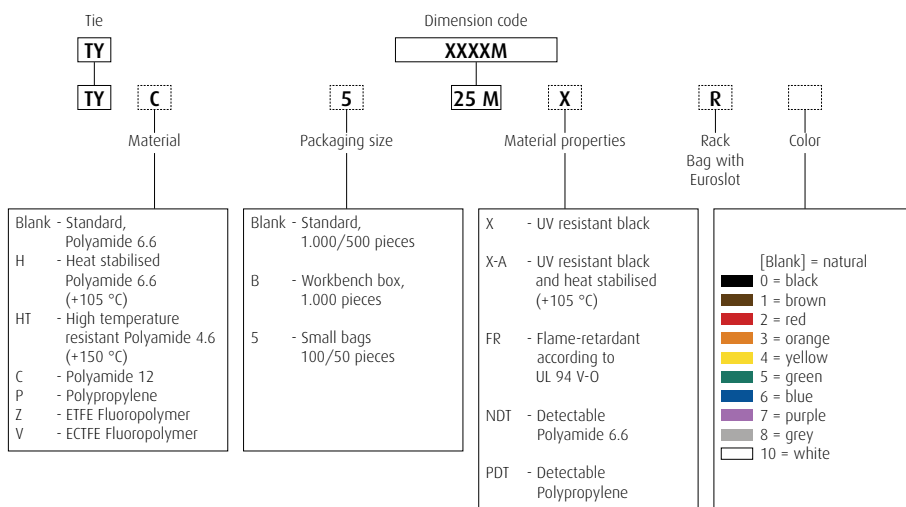
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Product reference structure

Ty-Rap® high performance cable ties

Ty-Rap® code:

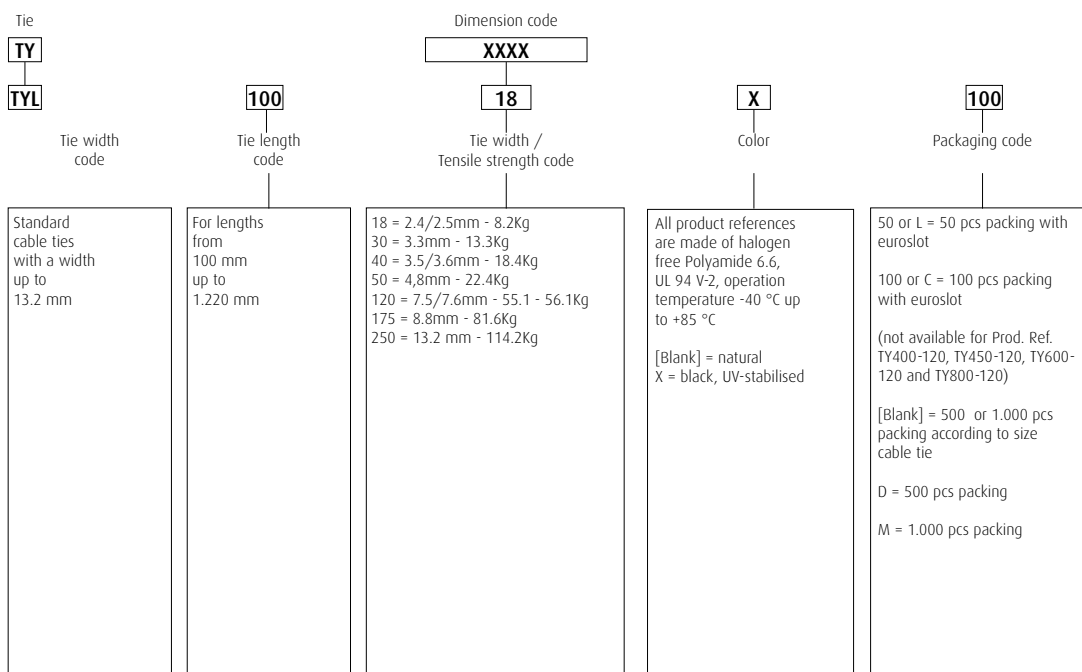


Note: Nylon (Polyamide) is inherently susceptible to environmental conditions. Ty-Rap® cable ties are moisturised to optimum performance levels at machine-side and should be stored in cool dry areas out of direct sunlight. Cable ties are packaged in plastic bags to contain moisture and should remain sealed until ready for use.

Product reference structure

All plastic cable ties

Ty-Fast® code:



Note: Nylon (Polyamide) is inherently susceptible to environmental conditions. Ty-Fast® cable ties are moisturised to optimum performance levels at machine-side and should be stored in cool dry areas out of direct sunlight. Cable ties are packaged in plastic bags to contain moisture and should remain sealed until ready for use.

Plastic cable ties - Stainless steel lock - For universal use



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -60 °C up to +85 °C (black up to +105 °C)
Flammability class	: UL 94 V-2
Approvals	: UL, CSA, Lloyd's Register, ABS, DNV-GL, CE
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ● Blue= ● Yellow= ● Green= ● Purple= ● Grey= ● Brown= ● Red= ● Orange= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY23M-*	92	2.3	22	8.2	100 / 1.000
TY232M-*	203	2.3	51	8.2	100 / 1.000
TY234M-*	356	2.3	102	8.2	100 / 1.000
TY24M-*	140	3.6	35	18.4	100 / 1.000
TY242M-*	208	3.6	51	18.4	100 / 1.000
TY26M-*	284	3.6	76	13.3	100 / 1.000
TY244M-*	368	3.6	102	13.7	100 / 1.000
TY25M-*	186	4.8	48	22.6	100 / 1.000
TY253M-*	290	4.8	78	22.6	100 / 1.000
TY28M-*	361	4.8	102	22.6	100 / 1.000
TY271M-*	150	6.9	31	55.1	50 / 500
TY272M-*	223	6.9	51	55.1	50 / 500
TY27M-*	340	7.0	102	55.1	50 / 500
TY275M-*	457	7.0	127	55.1	50 / 500
TY277M-*	617	7.0	177	55.1	50 / 500
TY29M-*	771	6.9	229	55.1	50 / 500
TY53510M-*	889	8.2	254	79.5	50
TY54513M-*	1143	8.2	330	79.5	50

Is your desired color in the desired size not listed? Please contact our sales department!

Description of product reference structure: see page 34

Plastic cable ties - Stainless steel lock - Euroslot packaging



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Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -60 °C up to +85 °C (black up to +105 °C)
Flammability class	: UL 94 V-2
Approvals	: UL, CSA, Lloyd's Register, ABS, DNV-GL, CE
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY523MR/TY523MXR	92	2.3	16	8.2	100
TY5232MR/TY5232MXR	203	2.3	51	8.2	100
TY5234M/TY5234MX*	356	2.3	102	8.2	100
TY524MR/TY524MXR	140	3.6	35	18.4	100
TY5242MR/TY5242MXR	208	3.6	51	18.4	100
TY526MR/TY526MXR	284	3.6	76	13.3	100
TY5244MR/TY5244MXR	368	3.6	102	13.7	100
TY525MR/TY525MXR	186	4.8	48	22.6	100
TY5253MR/TY5253MXR	290	4.8	78	22.6	100
TY528MR/TY528MXR	361	4.8	102	22.6	100
TY5271MR/TY5271MXR	150	6.9	31	55.1	50
TY5272MR/TY5272MXR	223	6.9	51	55.1	50
TY527MR/TY527MXR	340	7.0	102	55.1	50
TY5275M/TY5275MX*	457	7.0	127	55.1	50
TY5277M/TY5277MX*	617	7.0	177	55.1	50
TY529M/TY529MX*	771	6.9	229	55.1	50

* Don't have Euroslot

Plastic cable ties - Stainless steel lock - Workbench box



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Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -60 °C up to +85 °C (black up to +105 °C)
Flammability class	: UL 94 V-2
Approvals	: UL, CSA, Lloyd's Register, ABS, DNV-GL, CE
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYB23M/TYB23MX	92	2.3	16	8.2	1.000
TYB2315M/TYB2315MX	178	2.3	32	8.2	1.000
TYB232M/TYB232MX	203	2.3	51	8.2	1.000
TYB24M/TYB24MX	140	3.6	35	18.4	1.000
TYB25M/TYB25MX	186	4.8	48	22.6	1.000

Plastic cable ties - Stainless steel lock - Heat stabilized



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -60 °C up to +105 °C
Flammability class	: UL 94 V-2
Approvals	: UL, CSA, DNV-GL
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Natural (green colored)= ○

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYH23M / TYHB23M	92	2.4	16	8.2	1.000
TYH232M	203	2.4	51	8.2	1.000
TYH24M	140	3.6	35	18.4	1.000
TYH242M*	208	3.6	51	18.4	1.000
TYH26M	284	3.6	76	13.3	1.000
TYH25M	186	4.7	48	22.4	1.000
TYH253M*	290	4.8	76	22.4	1.000
TYH28M	360	4.8	102	22.4	1.000
TYH272M*	222	7.6	51	55.1	500
TYH27M	340	7.0	102	55.1	500
TYH29M*	771	6.9	229	55.1	500

* Not UL listed

Plastic cable ties - Stainless steel lock - Heat stabilised - UV resistant



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -60 °C up to +105 °C
Flammability class	: UL 94 V-2
Approvals	: UL, CSA, DNV-GL
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY23MX-A	92	2.3	16	8.2	1.000
TY24MX-A	140	3.6	35	13.6	1.000
TY25MX-A	186	4.8	48	22.4	1.000
TY253MX-A	290	4.8	78	22.4	1.000
TY28MX-A	361	4.8	102	22.4	1.000
TY27MX-A	340	6.9	95	55.1	500

Plastic cable ties - Stainless steel lock - Flame retardant



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -20 °C up to +65 °C
Flammability class	: UL 94 V-0
Approvals	: UL, CSA
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: White= ○

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY23MFR	92	2.4	16	8.2	1.000
TY232MFR	203	2.4	51	8.2	1.000
TY24MFR	140	3.6	35	13.7	1.000
TY25MFR	186	4.6	48	22.4	1.000
TY28MFR	360	4.6	102	18.0	500
TY272MFR	223	7.0	51	55.1	500
TY27MFR	335	7.6	95	55.1	100

Plastic cable ties - Stainless steel lock - Extra high temperature - PA 4.6



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 4.6
Operating temperature (°C)	: -40 °C up to +150 °C
Flammability class	: UL 94 V-2
Approvals	: UL recognised, CSA
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Light green= ○

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYHT23M	95	2.3	20	8.2	1.000
TYHT24M	143	3.6	29	18.2	1.000
TYHT25M	192	4.8	45	22.4	1.000
TYHT28M	367	4.8	102	22.4	1.000
TYHT27M	349	6.9	89	55.1	500
TYHT277M	617	7.0	177	55.1	500

Plastic cable ties - Stainless steel lock - UV resistant - PA12



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 12
Operating temperature (°C)	: -40 °C up to +105 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYC525MX/TYC25MX	186	4.7	45	15.8	100 / 1.000
TYC28MX	360	4.7	102	15.8	1.000
TYC272MX	222	7.6	51	38.7	500
TYC527MX/TYC27MX	343	7.6	89	38.7	50 / 500
TYC29MX	771	7.6	229	38.7	500

Plastic cable ties - Stainless steel lock - Resistant to chemicals - Floats on liquids - UV resistant - Polypropylene



Technical specifications

Brand	: Ty-Rap®
Material	: Polypropylene
Operating temperature (°C)	: -60 °C up to +80 °C
Flammability class	: UL 94 HB
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYP23MX	92	2.4	16	5.1	1.000
TYP25MX	186	4.8	45	13.3	1.000
TYP28MX	360	4.8	102	13.3	1.000
TYP27MX	340	7.0	90	27.5	500

Plastic cable ties with metal pigments - Stainless steel lock - Detectable - Polyamide 6.6



Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -60 °C up to +85 °C
Flammability class	: UL 94 HB
Approvals	: UL
Halogen-free	: Yes
Silicone-free	: Yes
UV resistant	: Yes
Available color	: Blue= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY523MR-NDT	93	2.3	16	8.2	100
TY524MR-NDT	140	3.6	35	13.7	100
TY525MR-NDT	186	4.6	45	18.4	100
TY528MR-NDT	361	4.8	102	22.4	100
TY527MR-NDT	345	6.9	102	55.1	50

Plastic cable ties with metal pigments - Stainless steel lock - Detectable - Polypropylene



Technical specifications

Brand	: Ty-Rap®
Material	: Polypropylene
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 HB
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Blue= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY523MR-PDT	93	2.3	16	5.1	100
TY525MR-PDT	186	4.6	45	13.3	100
TY528MR-PDT	361	4.8	102	13.3	100
TY527MR-PDT	345	6.9	95	27.5	50

Plastic cable ties - Stainless steel lock - Resistant to chemicals, radiation and extreme temperatures (150 °C) - Tefzel®



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Technical specifications

Brand	: Ty-Rap®
Material	: Ethylene-tetrafluorethylene (ETFE)
Operating temperature (°C)	: -60 °C up to +150 °C
Flammability class	: UL 94 V-0
Approvals	: UL recognised, CSA
Halogen-free	: No
Silicone-free	: Yes
Available color	: Aquamarine= ●

Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYZ523M/TYZ23M	92	2.3	22	8.2	100 / 1.000
TYZ525M/TYZ25M	186	4.3	48	22.4	100 / 1.000
TYZ528M/TYZ28M	360	4.4	102	22.4	100 / 500
TYZ527M/TYZ27M	340	6.8	95	55.1	50 / 100

Plastic cable ties - Stainless steel lock - Push mount

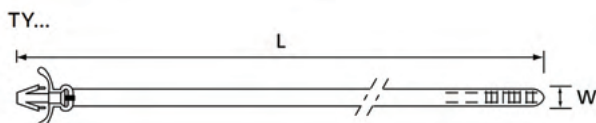


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Technical specifications

Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

Type no.	Type	Diameter of mounting hole (mm)	L - Length (mm)	W - Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	Wall thickness from to	PU (pcs.)
TY54SM*	Wing push mount	4.5 - 5.2	150	3.5	32	13.3	0.1 - 2.5	1.000
TY38M*	Wing push mount	6.4 - 6.7	200	4.7	44	22.4	1.0 - 4.0	1.000



Plastic cable ties - Stainless steel lock - Screw mount



Technical specifications

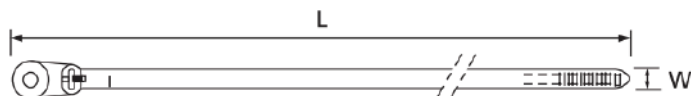
Brand	: Ty-Rap®
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural=○ Black (UV resistant)=●

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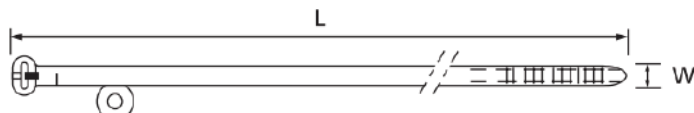
Type no.	Diameter of mounting hole (mm)	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY533M®/TY333M®	3.0	102	2.3	16	8.2	100 / 1.000
TY534M®/TY344M®	4.4	151	3.5	29	18.4	100 / 1.000
TYF535M/TYF35M	4.0	186	4.7	45	22.4	100 / 1.000
TY635M®	4.0	198	4.7	45	22.4	1.000
TY535M®/TY355M®	5.1	199	4.7	45	22.4	100 / 1.000
TY1435M	6.7	198	4.7	45	22.4	1.000
TY537M®/TY377M®	6.7	356	7.7	90	55.1	50 / 500

* Available in natural and black

TY...M, TY...MX



TYF35M, TYF535M



Plastic cable ties - For universal use



Technical specifications

Brand	: Ty-Fast®
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C (black up to +105 °C)
Flammability class	: UL 94 V-2
Approvals	: UL, Lloyd's register
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY100-18-C/TY100-18X-C	100	2.5	20	8.2	100
TY100-18-M/TY100-18X-M	100	2.5	20	8.2	1.000
TY125-18-C/TY125-18X-C	150	2.5	36	8.2	100
TY125-18-M/TY125-18X-M	150	2.5	36	8.2	1.000
TY125-40-100/TY125-40X-100 *	143	3.6	32	18.4	100
TY125-40/TY125-40X *	143	3.6	32	18.4	1.000
TY200-40-C/TY200-40XC	203	3.5	52	18.4	100
TY200-40-M/TY200-40X-M	203	3.5	52	18.4	1.000
TY300-40-100/TY300-40X-100	292	3.6	76	18.4	100
TY300-40/TY300-40X	292	3.6	76	18.4	1.000
TY400-40-100/TY400-40X-100	370	3.6	102	18.4	100
TY400-40/TY400-40X	370	3.6	102	18.4	1.000
TY175-50-100/TY175-50X-100	188	4.8	44	22.4	100
TY175-50/TY175-50X	188	4.8	44	22.4	1.000
TY225-50-100/TY225-50X-100	228	4.8	57	22.4	100
TY225-50/TY225-50X	228	4.8	57	22.4	1.000
TY300-50-100/TY300-50X-100	304	4.8	76	22.4	100
TY300-50/TY300-50X	304	4.8	76	22.4	1.000
TY400-50-100/TY400-50X-100	365	4.8	102	22.4	100
TY400-50/TY400-50X	365	4.8	102	22.4	1.000
TY200-120-D/TY200-120X-D	220	7.5	56	56.1	500
TY200-120X-C	220	7.5	56	56.1	100
TY400-120-100/TY400-120X-100	374	7.6	102	55.1	100
TY400-120/TY400-120X	374	7.6	102	55.1	500
TY450-120-L/TY450-120X-L	450	7.5	130	56.1	50
TY600-120-L/TY600-120X-L	610	7.5	181	56.1	50
TY800-120-L/TY800-120X-L	750	7.5	226	56.1	50

Description of product reference structure: see page 34

* Operating temperature -30 °C to + 85 °C

Plastic cable ties - Extra long



Technical specifications

Brand	: Ty-Fast®
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Approvals	: UL, Lloyd's register
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TY600-175-L/TY600-175X-L	631	9.0	187	81.6	50
TY900-175-L/TY900-175X-L	916	8.8	263	81.6	50
TY1.000-175-L/TY1.000-175X-L	1041	8.8	305	81.6	50
TY1200-175-L/TY1200-175X-L	1233	8.6	375	81.6	50

Plastic cable ties - Heavy-duty



Technical specifications

Brand	: Ty-Fast®
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Approvals	: UL, Lloyd's register
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
TYL300M/TYL300MX	300	13.2	75	114.2	50
TYL546M/TYL546MX	546	13.2	140	114.2	50

Stainless steel cable ties - Ball-Lock type - Uncoated



Technical specifications

Brand	: Ty-Met™
Material	: A. 304 grade non-magnetic stainless steel : B. 316 grade non-magnetic stainless steel
Operating temperature (°C)	: -60 °C up to +300 °C
Flammability class	: Absolutely fireproof
Approvals	: UL, DNV-GL, Lloyd's register
Halogen-free	: Yes
Silicone-free	: Yes
UV resistant	: Yes

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Type no. Stainless steel 304	Type no. Stainless steel 316	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
YLS-4.6-100A	YLS-4.6-100B	100	4.6	25	79.3	100
YLS-4.6-125A	YLS-4.6-125B	125	4.6	25	79.3	100
YLS-4.6-150A	YLS-4.6-150B	150	4.6	35	79.3	100
YLS4.6-200A	YLS4.6-200B	200	4.6	50	79.3	100
YLS-4.6-300A	YLS-4.6-300B	300	4.6	83	79.3	100
YLS4.6-360A	YLS4.6-360B	360	4.6	100	79.3	100
YLS4.6-520A	YLS-4.6-520B	520	4.6	150	79.3	100
YLS-4.6-680A	YLS-4.6-680B	680	4.6	200	79.3	100
YLS-4.6-840A	YLS-4.6-840B	840	4.6	250	79.3	100
YLS-4.6-1.000A	YLS-4.6-1.000B	1.000	4.6	300	79.3	100
YLS-4.6-1200A	YLS-4.6-1200B	1.200	4.6	365	79.3	100
YLS-4.6-1400A	YLS-4.6-1400B	1.400	4.6	425	79.3	100
YLS-7.9-100A	YLS-7.9-100B	100	7.9	20	113.4	100
YLS-7.9-125A	YLS-7.9-125B	125	7.9	22	113.4	100
YLS-7.9-150A	YLS-7.9-150B	150	7.9	35	113.4	100
YLS7.9-200A	YLS-7.9-200B	200	7.9	50	113.4	100
YLS-7.9-300A	YLS-7.9-300B	300	7.9	83	113.4	100
YLS7.9-360A	YLS-7.9-360B	360	7.9	100	113.4	100
YLS7.9-520A	YLS-7.9-520B	520	7.9	150	113.4	100
YLS-7.9-680A	YLS-7.9-680B	680	7.9	200	113.4	100
YLS-7.9-840A	YLS-7.9-840B	840	7.9	250	113.4	100
YLS-7.9-1.000A	YLS-7.9-1.000B	1.000	7.9	300	113.4	100
YLS-7.9-1200A	YLS-7.9-1200B	1.200	7.9	365	113.4	100
YLS-7.9-1400A	YLS-7.9-1400B	1.400	7.9	425	113.4	100

Stainless steel cable ties - Ball-Lock type - Heavy duty - Uncoated



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Technical specifications

Brand	: Ty-Met™
Material	: 316 grade non-magnetic stainless steel
Operating temperature (°C)	: -60 °C up to +300 °C
Flammability class	: Absolutely fireproof
Approvals	: UL
Halogen-free	: Yes
Silicone-free	: Yes
UV resistant	: Yes

Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
YLS-12-200B	200	12.0	50	113.9	50
YLS-12-300B	300	12.0	83	113.9	50
YLS-12-360B	360	12.0	100	113.9	50
YLS-12-440B	440	12.0	125	113.9	50
YLS-12-520B	520	12.0	150	113.9	50
YLS-12-600B	600	12.0	175	113.9	50
YLS-12-680B	680	12.0	200	113.9	50
YLS-12-760B	760	12.0	225	113.9	50
YLS-12-840B	840	12.0	250	113.9	50
YLS-12-1.000B	1.000	12.0	300	113.9	25
YLS-12-1200B	1.200	12.0	365	113.9	25
YLS-12-1400B	1.400	12.0	425	113.9	25
YLS-16-200B	200	16.0	50	408.4	50
YLS-16-300B	300	16.0	80	408.4	50
YLS-16-360B	360	16.0	100	408.4	50
YLS-16-440B	440	16.0	125	408.4	50
YLS-16-520B	520	16.0	150	408.4	50
YLS-16-600B	600	16.0	185	408.4	50
YLS-16-680B	680	16.0	200	408.4	50
YLS-16-760B	760	16.0	225	408.4	50
YLS-16-840B	840	16.0	250	408.4	50
YLS-16-1.000B	1.000	16.0	300	408.4	25
YLS-16-1200B	1.200	16.0	365	408.4	25
YLS-16-1400B	1.400	16.0	425	408.4	25

Stainless steel cable ties - Ball-Lock type - Coated



Technical specifications

Brand	: Ty-Met™
Material	: 316 grade non-magnetic stainless steel
Material coating	: Polyester
Operating temperature (°C)	: -40 °C up to +165 °C
Flammability class	: Absolutely fireproof
Approvals	: DNV-GL, Lloyd's register
Halogen-free	: Yes
Silicone-free	: Yes
UV resistant	: Yes
Available color	: Black = ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
YLS-4.6-100BC	100	4.6	25	79.3	100
YLS-4.6-125BC	125	4.6	25	79.3	100
YLS-4.6-150BC	150	4.6	35	79.3	100
YLS-4.6-200BC	200	4.6	50	79.3	100
YLS-4.6-300BC	300	4.6	83	79.3	100
YLS-4.6-360BC	360	4.6	100	79.3	100
YLS-4.6-520BC	520	4.6	150	79.3	100
YLS-4.6-680BC	680	4.6	200	79.3	100
YLS-4.6-840BC	840	4.6	250	79.3	100
YLS-4.6-1.000BC	1.000	4.6	300	79.3	100
YLS-4.6-1.200BC	1.200	4.6	365	79.3	100
YLS-4.6-1.400BC	1.400	4.6	425	79.3	100
YLS-7.9-100BC	100	7.9	20	113.4	100
YLS-7.9-125BC	125	7.9	22	113.4	100
YLS-7.9-150BC	150	7.9	35	113.4	100
YLS-7.9-200BC	200	7.9	50	113.4	100
YLS-7.9-300BC	300	7.9	83	113.4	100
YLS-7.9-360BC	360	7.9	100	113.4	100
YLS-7.9-520BC	520	7.9	150	113.4	100
YLS-7.9-680BC	680	7.9	200	113.4	100
YLS-7.9-840BC	840	7.9	250	113.4	100
YLS-7.9-1.000BC	1.000	7.9	300	113.4	100
YLS-7.9-1.200BC	1.200	7.9	365	113.4	100
YLS-7.9-1.400BC	1.400	7.9	425	113.4	100

Stainless steel cable ties - Ball-Lock type - Heavy duty - Coated



Technical specifications

Brand	: Ty-Met™
Material	: 316 grade non-magnetic stainless steel
Material coating	: Polyester
Operating temperature (°C)	: -40 °C up to +165 °C
Flammability class	: Absolutely fireproof
Halogen-free	: Yes
Silicone-free	: Yes
UV resistant	: Yes
Available color	: Black = ●

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Type no.	Length (mm)	Width (mm)	Max. bundle diameter (mm)	Tensile strength (kg)	PU (pcs.)
YLS-12-200BC	200	12.0	50	136.1	50
YLS-12-300BC	300	12.0	83	136.1	50
YLS-12-360BC	360	12.0	100	136.1	50
YLS-12-440BC	440	12.0	125	136.1	50
YLS-12-520BC	520	12.0	150	136.1	50
YLS-12-600BC	600	12.0	175	136.1	50
YLS-12-680BC	680	12.0	200	136.1	50
YLS-12-760BC	760	12.0	225	136.1	50
YLS-12-840BC	840	12.0	250	136.1	50
YLS-12-1.000BC	1.000	12.0	300	136.1	25
YLS-12-1200BC	1.200	12.0	365	136.1	25
YLS-12-1400BC	1.400	12.0	425	136.1	25
YLS-16-200BC	200	16.0	50	204.1	50
YLS-16-300BC	300	16.0	80	204.1	50
YLS-16-360BC	360	16.0	100	204.1	50
YLS-16-440BC	440	16.0	125	204.1	50
YLS-16-520BC	520	16.0	150	204.1	50
YLS-16-600BC	600	16.0	185	204.1	50
YLS-16-680BC	680	16.0	200	204.1	50
YLS-16-760BC	760	16.0	225	204.1	50
YLS-16-840BC	840	16.0	250	204.1	50
YLS-16-1.000BC	1.000	16.0	300	204.1	25
YLS-16-1200BC	1.200	16.0	365	204.1	25
YLS-16-1400BC	1.400	16.0	425	204.1	25

Self adhesive cable tie mounts for plastic cable ties - 2-way

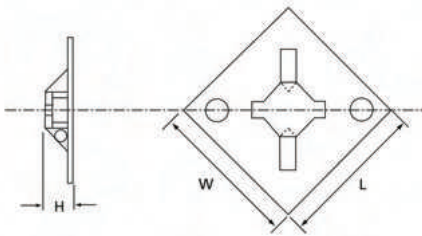


Technical specifications

Brand	: ABB
Material	: Polyamide 6.6
Operating temperature (°C)	: 0 °C up to +65 °C
Flammability class	: UL 94 V-2
Tape	: Adhesive rubber tape
Available colors	: Natural= ○ Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	L & W (mm)	H (mm)	For cable tie width up to (mm)	Mounting hole diameter (mm)	PU (pcs.)
TC5347A [®] /TC347A	29.0	8.5	7.6	4.4	100 / 1.000
TC347 [®]	28.6	7.8	7.6	4.4	1.000



Self adhesive cable tie mounts for plastic cable ties - 4-way

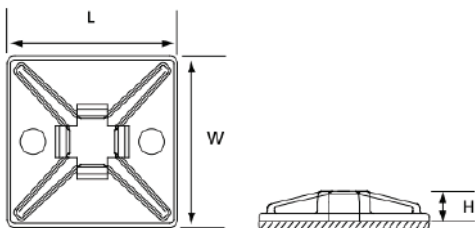


Technical specifications

Brand	: ABB
Material	: Polyamide 6.6
Operating temperature (°C)	: 0 °C up to +70 °C
Flammability class	: UL 94 V-2
Approvals	: UL, CSA
Tape	: Adhesive rubber tape
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	L & W (mm)	H (mm)	For cable tie width up to (mm)	Mounting hole diameter (mm)	PU (pcs.)
TC050x050A [®] -C/TC050x050A [®]	12.7	4.5	3.0	-	100 / 1.000
TC5344A [®] /TC344A [®]	19.1	4.9	3.6	Ø 3.0	100 / 1.000
TC5345A [®] /TC345A [®]	28.6	5.1	5.2	Ø 4.0	100 / 1.000



Mounting bases for plastic cable ties - With screw mount

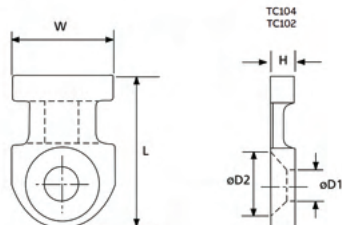


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Technical specifications

Brand	: ABB
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Approvals	: UL recognised, UL listed
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Natural= ○

Type no.	H (mm)	W (mm)	L (mm)	D1 (mm)	D2 (mm)	Tie width (mm)	PU (pcs.)
TC104	2.4	7.9	10.3	∅ 3.4	∅ 6.5	2.4	1.000
TC102	3.2	12.7	19.1	∅ 4.4	∅ 8.7	4.8	1.000



Mounting bases for plastic cable ties - Saddle support



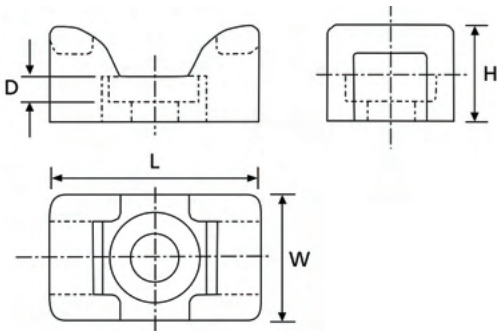
Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: ABB
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Approvals	: UL
Halogen-free	: Yes
Silicone-free	: Yes
Available colors	: Natural= ○ Black (UV resistant)= ●

Type no.	H (mm)	W (mm)	L (mm)	D (mm)	Tie width (mm)	Mounting hole diameter (mm)	PU (pcs.)
TC5140/TC140	6.7	8.7	14.2	1.8	2.4	3.0	100 / 500
TC5141/TC141	7.5	11.1	17.0	2.3	4.8	3.8	100 / 500
TC5142 [*] /TC142 [*]	10.7	14.2	23.4	2.9	7.6	5.2	100 / 500

^{*} Available in natural and black



Wallplug for plastic cable ties

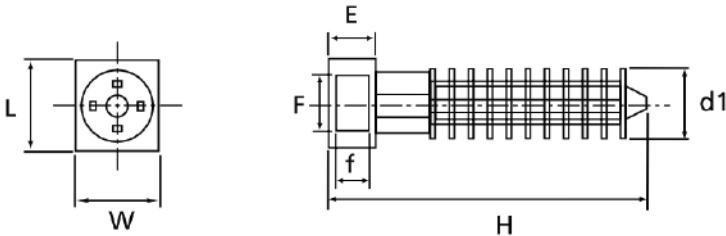


Technical specifications

Brand	: ABB
Material	: Polyamide 6.6
Operating temperature (°C)	: -40 °C up to +85 °C
Flammability class	: UL 94 V-2
Halogen-free	: Yes
Silicone-free	: Yes
Available color	: Black (UV resistant)= ●

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Type no.	H (mm)	W (mm)	L (mm)	E (mm)	F (mm)	f (mm)	Tie width (mm)	In wall diameter (mm)	PU (pcs.)
TC5358	31.8	9.9	9.9	7.1	5.6	2.3	4.8	6.4	100
TC5359	38.4	19.1	19.1	8.1	14.0	3.1	12.7	9.5	50



Cable tie installation tool - For plastic cable ties up to 4.8 mm wide - Ergonomic



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: Ty-Rap®
Type	: ERG50
Color	: Black / Orange
For cable tie type	: Plastic
Cable tie width	: From 2.4 to 4.8 mm
Tensile strength	: Adjustable
Cuts automatically	: Yes
Weight (g)	: 260 grams
Dimensions L x W x H	: 178 x 127 x 38 mm
Maximum tensile strength	: 22.6 kg

Cable tie installation tool - For plastic cable ties between 4.8 and 7.6 mm wide - Ergonomic



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: Ty-Rap®
Type	: ERG120
Color	: Black / Orange
For cable tie type	: Plastic
Cable tie width	: From 4.8 to 7.6 mm
Tensile strength	: Adjustable
Cuts automatically	: Yes
Weight (g)	: 278 grams
Dimensions L x W x H	: 178 x 127 x 38 mm
Maximum tensile strength	: 54.3 kg



2. Heat shrinkable products



Thin-wall heat shrink tubing

Thin-wall heat shrink tubing is the most used type of heat shrink tubing. Due to its thin wall, this type of heat shrink tubing is more flexible than medium- and heavy-wall heat shrink tubing. Thin-wall heat shrink tubing is made of crosslinked polyolefin and is, except for the clear, transparent tubes, flame retardant. Thin-wall heat shrink tubing is used in a wide range of applications and is most used in the field of communication, in the electronics industry and in the automotive industry.

Dual-wall heat shrink tubing

Dual-wall heat shrink tubing is the same as thin-wall heat shrink tubing, with one important exception: dual-wall heat shrink tubing has a second wall on the inside, made of an adhesive lining; hence dual-wall. Dual-wall heat shrink tubing offers excellent insulation and sealing properties. This type is made of crosslinked adhesive lined polyolefin and is, except for the clear, transparent tubes, flame retardant. Dual-wall heat shrink tubing is perfect for the sealing of electrical components such as wire splices and harness in automotive and communication industry.

Special heat shrink tubing

In our range of special types of heat shrink tubing we offer a variety of different types of heat shrink tubing suitable when your application requires:

- high temperature performance
- high resistance to chemicals
- superior impact resistance

Our range includes heat shrink tubing made of Viton® (crosslinked fluoroelastomer), Kynar® (crosslinked PVDF) and Teflon® (modified polytetrafluoroethylene). These types of heat shrink tubing are suitable for use in extreme environments.

Printable heat shrink tubing

The 2PF and 3PF tubing have the perfect design and surface to be printed, which makes marking or identifying heat shrink tubing possible. WKK can take care of the printing on this 2PF and 3PF tubing. Printing on any other type of heat shrink tubing may also be possible.

Medium-wall and heavy-wall heat shrink tubing

In addition to thin-wall heat shrink tubing, we also offer medium-wall and heavy-wall heat shrink tubing. Due to the wall thickness of these types of heat shrink tubing, they offer better (mechanical) protection than thin-wall variants. They are made of crosslinked polyolefin and are available with and without adhesive. The way the adhesive is applied varies per type – some do have co-extruded adhesive lining, some do not.

Medium- and heavy-wall heat shrink tubing offers high electrical and water proof insulation. These tubes are specifically designed for applications to seal and protect electrical splices, cable terminations and joints where electrical insulation and water proof are required. Ideal for low voltage applications.

Busbar insulation tubing

Busbar insulation tubing is available in both medium-wall and heavy-wall versions. These tubes are flexible and made of modified polyolefin. These items are flame retardant, halogen free and UV- and weather resistant. Busbar insulation tubing offers high resistance to tracking and arcing and enhances the insulation properties of busbar in switch and substation. Therefore, busbar insulation tubing is suitable for insulating medium voltage busbars up to 36kV.

Moulded parts

Heat-shrinkable moulded parts are available in three types:

- Heat shrinkable cable breakouts
- Heat shrinkable cable end caps
- Heat shrinkable cable feed throughs

Each of these types has its own design and common applications.

Other

In addition to the different types of heat shrink tubing, WKK also offers a broad range of heat shrink tubing assortment boxes, a display for heat shrink tubing and heat guns, for optimal use and ease of installation of our heat shrinkable products.

Services

Would you like to have your heat shrink tubing printed, or cut into pieces of a specific length? WKK offers both services. Please contact us for more information.



WKK
FIXATION MATERIALS

PRODUCED BY
Hongshang

2.2 Thin-wall heat shrink tubing

H-2(Z) - Thin-wall heat shrink tubing - 2:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS
Available colors	: Black (UV resistant)= ● White= ○ Red= ● Blue= ● Yellow= ● Green= ● Purple= ● Brown= ● Orange= ● Grey= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type			
				Reel (meter)	Minibox (meter)	Length piece (mm)	
H-2(Z) 1.2/0.6	1.2	0.6	0.33	150	10	1.000	1.220
H-2(Z) 1.6/0.8	1.6	0.8	0.36	150	10	1.000	1.220
H-2(Z) 2.4/1.2	2.4	1.2	0.42	150	10	1.000	1.220
H-2(Z) 3.2/1.6	3.2	1.6	0.42	150	10	1.000	1.220
H-2(Z) 4.8/2.4	4.8	2.4	0.52	75	10	1.000	1.220
H-2(Z) 6.4/3.2	6.4	3.2	0.52	75	5	1.000	1.220
H-2(Z) 9.5/4.8	9.5	4.8	0.52	75	5	1.000	1.220
H-2(Z) 12.7/6.4	12.7	6.4	0.62	50	5	1.000	1.220
H-2(Z) 16.0/8.0	16.0	8.0	0.67	50	5	1.000	1.220
H-2(Z) 19.0/9.5	19.0	9.5	0.75	30	5	1.000	1.220
H-2(Z) 25.4/12.7	25.4	12.7	0.85	30	5	1.000	1.220
H-2(Z) 32.0/16.0	32.0	16.0	0.85	30	-	1.000	1.220
H-2(Z) 38.1/19.0	38.1	19.0	0.96	30	-	1.000	1.220
H-2(Z) 50.8/25.4	50.8	25.4	0.97	30	-	1.000	1.220
H-2(Z) 76.2/38.1	76.2	38.1	1.17	15	-	1.000	1.220
H-2(Z) 102.0/50.8	102.0	50.8	1.30	15	-	-	-
H-2(Z) 126.0/63.5	126.0	63.5	1.30	15	-	-	-
H-2(Z) 150.0/76.0	150.0	76.0	1.30	15	-	-	-

H-1 - Thin-wall heat shrink tubing - 2:1 - Non flame retardant - Operating temperature up to 105 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: No
Self-extinguishing	: No
Adhesive	: No
Operating temperature	: -55 °C up to +105 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +105 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available colors	: Black (UV resistant)= ● Transparent (clear)= ○

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type			
				Reel (meter)	Minibox (meter)	Length piece (mm)	
H-1 1.2/0.6	1.2	0.6	0.33	150	10	1.000	1.220
H-1 1.6/0.8	1.6	0.8	0.36	150	10	1.000	1.220
H-1 2.4/1.2	2.4	1.2	0.42	150	10	1.000	1.220
H-1 3.2/1.6	3.2	1.6	0.42	150	10	1.000	1.220
H-1 4.8/2.4	4.8	2.4	0.52	75	10	1.000	1.220
H-1 6.4/3.2	6.4	3.2	0.54	75	5	1.000	1.220
H-1 9.5/4.8	9.5	4.8	0.54	75	5	1.000	1.220
H-1 12.7/6.4	12.7	6.4	0.62	50	5	1.000	1.220
H-1 16.0/8.0	16.0	8.0	0.67	50	5	1.000	1.220
H-1 19.0/9.5	19.0	9.5	0.75	30	5	1.000	1.220
H-1 25.4/12.7	25.4	12.7	0.85	30	5	1.000	1.220
H-1 32.0/16.0	32.0	16.0	0.85	30	-	1.000	1.220
H-1 38.1/19.0	38.1	19.0	0.96	30	-	1.000	1.220
H-1 50.8/25.4	50.8	25.4	0.97	30	-	1.000	1.220
H-1 76.2/38.1	76.2	38.1	1.20	15	-	-	-
H1 102.0/50.8	102.0	50.8	1.20	15	-	-	-

2.2 Thin-wall heat shrink tubing

H-2(3X) - Thin-wall heat shrink tubing - 3:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS
Available colors	: Black (UV resistant)= ● White= ○ Red= ● Blue= ● Yellow= ● Green= ● Purple= ● Brown= ● Orange= ● Grey= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type			
				Reel (meter)	Minibox (meter)	Length piece (mm)	
H-2(3X) 1.5/0.5	1.5	0.5	0.45	150	10	1.000	1.220
H-2(3X) 3.0/1.0	3.0	1.0	0.50	150	10	1.000	1.220
H-2(3X) 4.5/1.5	4.5	1.5	0.60	75	10	1.000	1.220
H-2(3X) 6.0/2.0	6.0	2.0	0.65	75	10	1.000	1.220
H-2(3X) 9.0/3.0	9.0	3.0	0.75	75	5	1.000	1.220
H-2(3X) 12.0/4.0	12.0	4.0	0.80	50	5	1.000	1.220
H-2(3X) 18.0/6.0	18.0	6.0	0.90	30	5	1.000	1.220
H-2(3X) 24.0/8.0	24.0	8.0	1.00	30	5	1.000	1.220
H-2(3X) 39.0/13.0	39.0	13.0	1.20	30	-	1.000	1.220

H-2R - Thin-wall heat shrink tubing - 2:1 - Operating temperature up to 135 °C



Technical specifications

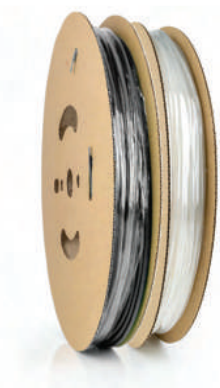
Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +105 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS
Available color	: Black (UV resistant) ●

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Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2R 1.2/0.6	1.2	0.6	0.40	150
H-2R 1.6/0.8	1.6	0.8	0.40	150
H-2R 2.4/1.2	2.4	1.2	0.48	150
H-2R 3.2/1.6	3.2	1.6	0.48	150
H-2R 4.8/2.4	4.8	2.4	0.48	75
H-2R 6.4/3.2	6.4	3.2	0.56	75
H-2R 9.5/4.8	9.5	4.8	0.62	75
H-2R 12.7/6.4	12.7	6.4	0.62	50
H-2R 16.0/8.0	16.0	8.0	0.68	50
H-2R 19.0/9.5	19.0	9.5	0.68	30
H-2R 25.4/12.7	25.4	12.7	0.87	30
H-2R 32.0/16.0	32.0	16.0	1.00	30
H-2R 38.1/19.0	38.1	19.0	1.00	30
H-2R 50.8/25.4	50.8	25.4	1.10	30
H-2R 76.2/38.1	76.2	38.1	1.20	15
H-2R 102.0/50.8	102.0	50.8	1.35	15
H-2R 126.0/63.5	126.0	63.5	1.40	15
H-2R 150.0/76.0	150.0	76.0	1.40	15

2.2 Thin-wall heat shrink tubing

H-2F - Thin-wall heat shrink tubing - 2:1 - Operating temperature up to 135 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes (except transparent)
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +105 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS, MIL-SPEC
Available colors	: Black (UV resistant)=● Transparent (clear)=○
Other colors on request	

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2F 1.2/0.6	1.2	0.6	0.38	150
H-2F 1.6/0.8	1.6	0.8	0.40	150
H-2F 2.4/1.2	2.4	1.2	0.48	150
H-2F 3.2/1.6	3.2	1.6	0.48	150
H-2F 4.8/2.4	4.8	2.4	0.48	75
H-2F 6.4/3.2	6.4	3.2	0.56	75
H-2F 9.5/4.8	9.5	4.8	0.62	75
H-2F 12.7/6.4	12.7	6.4	0.62	50
H-2F 16.0/8.0	16.0	8.0	0.68	50
H-2F 19.0/9.5	19.0	9.5	0.69	30
H-2F 25.4/12.7	25.4	12.7	0.89	30
H-2F 32.0/16.0	32.0	16.0	1.00	30
H-2F 38.1/19.0	38.1	19.0	1.00	30
H-2F 50.8/25.4	50.8	25.4	1.10	30
H-2F 76.2/38.1	76.2	38.1	1.20	15
H-2F 102.0/50.8	102.0	50.8	1.35	15
H-2F 126.0/63.5	126.0	63.5	1.40	15
H-2F 150.0/76.0	150.0	76.0	1.40	15

H-2F(3X) - Thin-wall heat shrink tubing - 3:1 - Operating temperature up to 135 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: Yes (except transparent)
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +105 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS, MIL-SPEC
Available colors	: Black (UV resistant)= ● Transparent (clear)= ○
Other colors on request	

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2F(3X) 1.5/0.5	1.5	0.5	0.45	150
H-2F(3X) 3.0/1.0	3.0	1.0	0.50	150
H-2F(3X) 4.5/1.5	4.5	1.5	0.60	75
H-2F(3X) 6.0/2.0	6.0	2.0	0.65	75
H-2F(3X) 9.0/3.0	9.0	3.0	0.75	75
H-2F(3X) 12.0/4.0	12.0	4.0	0.80	50
H-2F(3X) 18.0/6.0	18.0	6.0	0.90	30
H-2F(3X) 24.0/8.0	24.0	8.0	1.20	30
H-2F(3X) 39.0/13.0	39.0	13.0	1.25	30

H-2F(4X) - Thin-wall heat shrink tubing - 4:1 - Operating temperature up to 135 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 4:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +105 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS, MIL-SPEC
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Length piece (mm)
H-2F(4X) 19.1/4.6	19.1	4.6	1.80	1.220
H-2F(4X) 25.4/7.0	25.4	7.0	1.80	1.220
H-2F(4X) 38.1/9.5	38.1	9.5	1.80	1.220
H-2F(4X) 50.8/14.0	50.8	14.0	1.80	1.220
H-2F(4X) 76.2/21.3	76.2	21.3	1.80	1.220
H-2F(4X) 102.0/26.7	102.0	26.7	1.90	1.220
H-2F(4X) 115.0/36.8	115.0	36.8	1.90	1.220

2.2 Thin-wall heat shrink tubing

H-2F(Y/G) - Thin-wall heat shrink tubing - Yellow/Green - Operating temperature up to 135 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1 / 3:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +105 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS, MIL-SPEC
Available color	: Yellow/green=

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type			
				Reel (meter)	Minibox (meter)	Length piece (mm)	
H-2F(Y/G) 2:1 2.4/1.2	2.4	1.2	0.42	150	10	1.000	1.220
H-2F(Y/G) 2:1 3.2/1.6	3.2	1.6	0.42	150	10	1.000	1.220
H-2F(Y/G) 2:1 4.8/2.4	4.8	2.4	0.52	75	10	1.000	1.220
H-2F(Y/G) 2:1 6.4/3.2	6.4	3.2	0.54	75	10	1.000	1.220
H-2F(Y/G) 2:1 9.5/4.8	9.5	4.8	0.54	75	5	1.000	1.220
H-2F(Y/G) 2:1 12.7/6.4	12.7	6.4	0.62	50	5	1.000	1.220
H-2F(Y/G) 2:1 16.0/8.0	16.0	8.0	0.67	50	5	1.000	1.220
H-2F(Y/G) 2:1 19.0/9.5	19.0	9.5	0.75	30	5	1.000	1.220
H-2F(Y/G) 2:1 25.4/12.7	25.4	12.7	0.85	30	5	1.000	1.220
H-2F(Y/G) 2:1 32.0/16.0	32.0	16.0	0.85	30	-	1.000	1.220
H-2F(Y/G) 2:1 38.1/19.0	38.1	19.0	0.96	30	-	1.000	1.220
H-2F(Y/G) 2:1 50.8/25.4	50.8	25.4	0.96	30	-	1.000	1.220
H-2F(Y/G) 2:1 76.2/38.1	76.2	38.1	1.17	15	-	-	-
H-2F(Y/G) 2:1 102.0/50.8	102.0	50.8	1.30	15	-	-	-

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type			
				Reel (meter)	Minibox (meter)	Length piece (mm)	
H-2F(Y/G) 3:1 2.4/0.8	2.4	0.8	0.51	150	10	1.000	1.220
H-2F(Y/G) 3:1 3.0/1.0	3.0	1.0	0.55	150	10	1.000	1.220
H-2F(Y/G) 3:1 4.5/1.5	4.5	1.5	0.60	75	10	1.000	1.220
H-2F(Y/G) 3:1 6.0/2.0	6.0	2.0	0.65	75	10	1.000	1.220
H-2F(Y/G) 3:1 9.0/3.0	9.0	3.0	0.75	75	5	1.000	1.220
H-2F(Y/G) 3:1 12.0/4.0	12.0	4.0	0.75	50	5	1.000	1.220
H-2F(Y/G) 3:1 18.0/6.0	18.0	6.0	0.85	30	5	1.000	1.220
H-2F(Y/G) 3:1 24.0/8.0	24.0	8.0	1.00	30	5	1.000	1.220
H-2F(Y/G) 3:1 39.0/13.0	39.0	13.0	1.15	30	-	1.000	1.220

H-2(HF) - Thin-wall heat shrink tubing - 2:1 - Halogen free - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +100 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: UL E204071, RoHS
Available color	: Black (UV resistant) ●
Other colors on request	

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2(HF) 1.2/0.6	1.2	0.6	0.33	300
H-2(HF) 1.6/0.8	1.6	0.8	0.36	300
H-2(HF) 2.4/1.2	2.4	1.2	0.42	300
H-2(HF) 3.2/1.6	3.2	1.6	0.42	300
H-2(HF) 4.8/2.4	4.8	2.4	0.51	150
H-2(HF) 6.4/3.2	6.4	3.2	0.54	150
H-2(HF) 9.5/4.8	9.5	4.8	0.54	75
H-2(HF) 12.7/6.4	12.7	6.4	0.62	75
H-2(HF) 16.0/8.0	16.0	8.0	0.69	75
H-2(HF) 19.0/9.5	19.0	9.5	0.75	50
H-2(HF) 25.4/12.7	25.4	12.7	0.85	50
H-2(HF) 32.0/16.0	32.0	16.0	0.85	30
H-2(HF) 38.1/19.0	38.1	19.0	0.96	30
H-2(HF) 50.8/25.4	50.8	25.4	0.97	30
H-2(HF) 76.2/38.1	76.2	38.1	1.17	30

2.2 Thin-wall heat shrink tubing

H-2(LS) - Thin-wall heat shrink tubing - 2:1 - Min. shrink temperature 65 °C - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +65 °C
Minimum full recovery temperature	: +95 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available colors	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2(LS) 1.6/0.8	1.6	0.8	0.50	150
H-2(LS) 2.4/1.2	2.4	1.2	0.50	150
H-2(LS) 3.2/1.6	3.2	1.6	0.50	150
H-2(LS) 4.8/2.4	4.8	2.4	0.50	75
H-2(LS) 6.4/3.2	6.4	3.2	0.60	75
H-2(LS) 9.5/4.8	9.5	4.8	0.60	75
H-2(LS) 12.7/6.4	12.7	6.4	0.60	50
H-2(LS) 16.0/8.0	16.0	8.0	0.60	50
H-2(LS) 19.0/9.5	19.0	9.5	0.80	30
H-2(LS) 25.4/12.7	25.4	12.7	0.90	30
H-2(LS) 32.0/16.0	32.0	16.0	0.90	30
H-2(LS) 38.1/19.0	38.1	19.0	1.00	30
H-2(LS) 50.8/25.4	50.8	25.4	1.10	30

H-5R(3X) - Dual wall heat shrink tubing - 3:1 - With adhesive - Halogen free - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: Yes (except transparent)
Self-extinguishing	: Yes
Adhesive	: Yes
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked co-extruded adhesive lined polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available colors	: Black (UV resistant)= ● Transparent (clear)= ○

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type		
				Reel (meter)	Minibox (meter)	Length piece (mm)
H-5R(3X)-F 3.0/1.0	3.0	1.0	1.00	150	5.0	1.220
H-5R(3X)-F 4.8/1.5	4.8	1.5	1.00	75	4.0	1.220
H-5R(3X)-F 6.0/2.0	6.0	2.0	1.00	75	3.5	1.220
H-5R(3X)-F 9.0/3.0	9.0	3.0	1.40	50	3.0	1.220
H-5R(3X)-F 12.0/4.0	12.0	4.0	1.60	30	2.5	1.220
H-5R(3X)-F 19.0/6.0	19.0	6.0	2.20	30	2.0	1.220
H-5R(3X)-F 24.0/8.0	24.0	8.0	2.40	30	1.5	1.220
H-5R(3X)-F 30.0/10.0	30.0	10.0	2.40	30	-	1.220
H-5R(3X)-F 40.0/13.0	40.0	13.0	2.40	30	-	1.220

H-5R(4X) - Dual wall heat shrink tubing - 4:1 - With adhesive - Halogen free - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 4:1
Flame retardant	: Yes (except transparent)
Self-extinguishing	: Yes
Adhesive	: Yes
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked co-extruded adhesive lined polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available colors	: Black (UV resistant)= ● Transparent (clear)= ○

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Reel (meter)	Length piece (mm)
H-5R(4X)-F 4.0/1.0	4.0	1.0	1.00	150	1.220
H-5R(4X)-F 6.0/1.5	6.0	1.5	1.00	75	1.220
H-5R(4X)-F 8.0/2.0	8.0	2.0	1.00	75	1.220
H-5R(4X)-F 12.0/3.0	12.0	3.0	1.40	50	1.220
H-5R(4X)-F 16.0/4.0	16.0	4.0	1.60	30	1.220
H-5R(4X)-F 24.0/6.0	24.0	6.0	2.20	30	1.220
H-5R(4X)-F 32.0/8.0	32.0	8.0	2.40	30	1.220
H-5R(4X)-F 52.0/13.0	52.0	13.0	2.40	30	1.220

2.3 Dual wall heat shrink tubing

H-5(3X)-F - Dual wall heat shrink tubing - 3:1 - With adhesive - Operating temperature up to 135 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: Yes
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked co-extruded adhesive lined polyolefin
Halogen-free	: No
Approvals	: UL E204071 (only for black), CSA, RoHS, MIL-SPEC
Available colors	: Black (UV resistant)= ● White= ○ Red= ● Blue= ● Yellow= ● Green= ● Purple= ● Brown= ● Grey= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type		
				Reel (meter)	Minibox (meter)	Length piece (mm)
H-5(3X)-F 3.0/1.0	3.0	1.0	1.00	150	5.0	1.220
H-5(3X)-F 4.8/1.5	4.8	1.5	1.00	75	4.0	1.220
H-5(3X)-F 6.0/2.0	6.0	2.0	1.00	75	3.5	1.220
H-5(3X)-F 9.0/3.0	9.0	3.0	1.35	50	3.0	1.220
H-5(3X)-F 12.0/4.0	12.0	4.0	1.65	30	2.5	1.220
H-5(3X)-F 19.0/6.0	19.0	6.0	2.10	30	2.0	1.220
H-5(3X)-F 24.0/8.0	24.0	8.0	2.35	30	1.5	1.220
H-5(3X)-F 30.0/10.0	30.0	10.0	2.40	30	-	1.220
H-5(3X)-F 40.0/13.0	40.0	13.0	2.40	30	-	1.220

H-5(4X)-F - Dual wall heat shrink tubing - 4:1 - With adhesive - Operating temperature up to 135 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 4:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: Yes
Operating temperature	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked co-extruded adhesive lined polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS, MIL-SPEC
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Reel (meter)	Length piece (mm)
H-5(4X)-F 4.0/1.0	4.0	1.0	1.00	150	1.220
H-5(4X)-F 6.0/1.5	6.0	1.5	1.00	75	1.220
H-5(4X)-F 8.0/2.0	8.0	2.0	1.00	75	1.220
H-5(4X)-F 12.0/3.0	12.0	3.0	1.35	50	1.220
H-5(4X)-F 16.0/4.0	16.0	4.0	1.62	30	1.220
H-5(4X)-F 24.0/6.0	24.0	6.0	2.10	30	1.220
H-5(4X)-F 32.0/8.0	32.0	8.0	2.35	30	1.220
H-5(4X)-F 52.0/13.0	52.0	13.0	2.35	30	1.220

HBK - Dual wall heat shrink tubing - 4:1 - With adhesive - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 4:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: Yes
Operating temperature	: -40 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +135 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked adhesive lined polyolefin
Halogen-free	: No
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Length piece (mm)
HBK 6.0/1.27	6.0	1.27	1.30	1.220
HBK 8.0/1.65	8.0	1.65	1.50	1.220
HBK 12.0/2.41	12.0	2.41	1.90	1.220



2.4 Special heat shrink tubing

H-175K - Kynar® - 2:1 - Operating temperature up to 175 °C - Resistant to chemicals, fuels and solvents



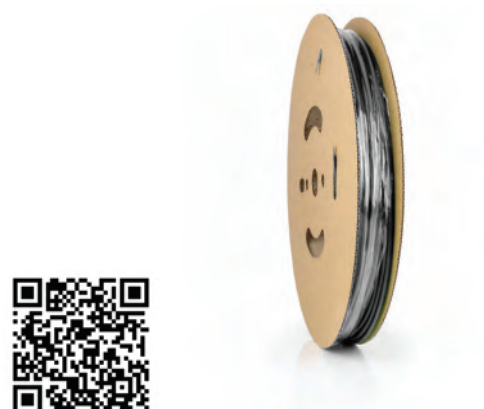
Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +175 °C
Minimum full recovery temperature	: +175 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked PVDF
Halogen-free	: No
Approvals	: UL E249362, RoHS, MIL-SPEC
Available color	: Transparent (clear)= ○
On request	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Reel (meter)	Length piece (mm)
H-175K 1.2/0.6	1.2	0.6	0.20	150	1.220
H-175K 1.6/0.8	1.6	0.8	0.20	150	1.220
H-175K 2.4/1.2	2.4	1.2	0.23	150	1.220
H-175K 3.2/1.6	3.2	1.6	0.23	150	1.220
H-175K 4.8/2.4	4.8	2.4	0.23	75	1.220
H-175K 6.4/3.2	6.4	3.2	0.23	75	1.220
H-175K 9.5/4.8	9.5	4.8	0.28	75	1.220
H-175K 12.7/6.4	12.7	6.4	0.32	75	1.220
H-175K 19.1/9.5	19.1	9.5	0.36	-	1.220
H-175K 25.4/12.7	25.4	12.7	0.41	-	1.220

H-200E - Viton® - 2:1 - Operating temperature up to 200 °C - Resistant to chemicals



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +200 °C
Minimum full recovery temperature	: +175 °C
Longitudinal change	: 0 up to 10% max.
Material	: Crosslinked fluoroelastomer
Halogen-free	: No
Approvals	: UL E249362, RoHS, MIL-SPEC
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-200E 3.2/1.6	3.2	1.6	0.80	50
H-200E 4.8/2.4	4.8	2.4	0.95	50
H-200E 6.4/3.2	6.4	3.2	0.98	50
H-200E 9.5/4.8	9.5	4.8	1.00	50
H-200E 12.7/6.4	12.7	6.4	1.16	30
H-200E 19.1/9.5	19.1	9.5	1.49	30
H-200E 25.4/12.7	25.4	12.7	1.85	30

HTFE - Teflon® - 1.6:1 - Operating temperature up to 260 °C - Resistant to chemicals



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 1.6:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -65 °C up to +260 °C
Minimum full recovery temperature	: +350 °C
Longitudinal change	: 0 up to 10% max.
Material	: Modified tetrafluoroethylene
Halogen-free	: No
Approvals	: RoHS, MIL-SPEC
Available color	: Transparent (clear)= ○

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Length piece (mm)
HTFE AWG 20	1.52	0.97	0.30	1.220
HTFE AWG 18	1.93	1.17	0.30	1.220
HTFE AWG 16	2.36	1.45	0.30	1.220
HTFE AWG 14	3.05	1.82	0.30	1.220
HTFE AWG 12	3.81	2.26	0.30	1.220
HTFE AWG 10	4.85	2.80	0.30	1.220
HTFE AWG 8	6.10	3.55	0.38	1.220
HTFE AWG 6	7.67	4.40	0.38	1.220
HTFE AWG 4	9.40	5.45	0.38	1.220
HTFE AWG 2	10.92	6.90	0.38	1.220
HTFE AWG 0	11.94	8.56	0.38	1.220

2.4 Special heat shrink tubing

H-2(Z) 2PF - Printable heat shrink tubing - 2:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +100 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, RoHS
Available colors	: Yellow= ● White= ○

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2(Z) 2PF 2.4/1.2	2.4	1.2	0.4	100
H-2(Z) 2PF 3.2/1.6	3.2	1.6	0.4	100
H-2(Z) 2PF 4.8/2.4	4.8	2.4	0.4	100
H-2(Z) 2PF 6.4/3.2	6.4	3.2	0.4	100
H-2(Z) 2PF 9.5/4.8	9.5	4.8	0.43	100
H-2(Z) 2PF 12.7/6.4	12.7	6.4	0.45	100
H-2(Z) 2PF 19.1/9.5	19.1	9.5	0.62	50
H-2(Z) 2PF 25.4/12.7	25.4	12.7	0.7	50
H-2(Z) 2PF 38.1/19.0	38.1	19.0	0.82	50

H-2(Z) 3PF - Printable heat shrink tubing - 3:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +100 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, RoHS
Available colors	: Yellow= ● White= ○

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2(Z) 3PF 3.2/1.0	3.2	1.0	0.45	100
H-2(Z) 3PF 4.8/1.6	4.8	1.6	0.48	100
H-2(Z) 3PF 6.4/2.0	6.4	2.0	0.50	100
H-2(Z) 3PF 9.5/3.0	9.5	3.0	0.54	100
H-2(Z) 3PF 12.7/4.2	12.7	4.2	0.64	50
H-2(Z) 3PF 19.0/6.3	19.0	6.3	0.66	50
H-2(Z) 3PF 25.4/8.3	25.4	8.3	0.70	50

H-2(HF) 2PF - Printable heat shrink tubing - 2:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +100 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: UL E204071, RoHS
Available color	: Black (UV resistant) ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Reel (meter)
H-2(HF) 2PF 2.4/1.2	2.4	1.2	0.40	100
H-2(HF) 2PF 3.2/1.6	3.2	1.6	0.40	100
H-2(HF) 2PF 4.8/2.4	4.8	2.4	0.40	100
H-2(HF) 2PF 6.4/3.2	6.4	3.2	0.40	100
H-2(HF) 2PF 9.5/4.8	9.5	4.8	0.43	50
H-2(HF) 2PF 12.7/6.4	12.7	6.4	0.45	50
H-2(HF) 2PF 19.1/9.5	19.1	9.5	0.62	50
H-2(HF) 2PF 25.4/12.7	25.4	12.7	0.72	50
H-2(HF) 2PF 38.1/19.0	38.1	19.0	0.82	50

2.4 Special heat shrink tubing

HFSP - Heat shrinkable fibre optic splice protectors - Operating temperature up to 100 °C



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: WKK (produced by Hongshang)
Flame retardant	: No
Adhesive	: No
Operating temperature	: -45 °C up to +100 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Transparent= ○

Type / Size	Splice protector: length in mm	Fusion tube: inside diameter in mm (max.)	Steel rod: length in mm	Packaging type
				Bag (pcs.)
HFSP-61	61	1.40	55	100
HFSP-45	45	1.40	40	100
HFSP-61T	61	1.40	57	100
HFSP-45T	45	1.40	41	100
HFSP-40T	40	1.40	36	100
HFSP-30T	30	1.40	27	100
HFSP-25T	25	1.40	21	100
HFSP-40M	40	0.35	40	100
HFSP-25M	25	0.35	25	100

HRA2 - Medium-wall heat shrink tubing - 3:1 - With adhesive - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Length piece (mm)	
HRA2 8/2	8	2	1.8	1.000	1.220
HRA2 12/3	12	3	2.8	1.000	1.220
HRA2 16/5	16	5	2.1	1.000	1.220
HRA2 22/6	22	6	2.4	1.000	1.220
HRA2 28/6	28	6	2.7	1.000	1.220
HRA2 33/8	33	8	2.6	1.000	1.220
HRA2 40/12	40	12	2.6	1.000	1.220
HRA2 55/16	55	16	2.7	1.000	1.220
HRA2 65/19	65	19	2.9	1.000	1.220
HRA2 75/22	75	22	3.0	1.000	1.220
HRA2 85/25	85	25	3.6	1.000	1.220
HRA2 95/25	95	25	3.6	1.000	1.220
HRA2 115/34	115	34	3.5	1.000	1.220
HRA2 140/42	140	42	3.3	1.000	1.220
HRA2 160/50	160	50	3.3	1.000	1.220
HRA2 180/58	180	58	3.3	1.000	1.220
HRA2 200/65	200	65	3.7	1.000	1.220
HRA2 235/65	235	65	3.8	1.000	1.220
HRA2 265/75	265	75	3.8	1.000	1.220
HRA2 300/85	300	85	3.8	1.000	1.220
HRA2 350/100	350	100	4.3	1.000	1.220
HRA2 380/150	380	150	4.3	1.000	1.220
HRA2 410/150	410	150	4.3	1.000	1.220

2.5 Medium-wall heat shrink tubing

HR2 - Medium-wall heat shrink tubing - 3:1 - Without adhesive - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: No
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Reel (meter)	Length piece (mm)
HR2 8/2	8	2	1.8	30	1.220
HR2 12/3	12	3	2.8	30	1.220
HR2 16/5	16	5	2.1	30	1.220
HR2 22/6	22	6	2.4	30	1.220
HR2 28/6	28	6	2.7	30	1.220
HR2 33/8	33	8	2.6	30	1.220
HR2 40/12	40	12	2.6	30	1.220
HR2 55/16	55	16	2.7	30	1.220
HR2 65/19	65	19	2.9	30	1.220
HR2 75/22	75	22	3.0	30	1.220
HR2 85/25	85	25	3.6	15	1.220
HR2 95/25	95	25	3.6	15	1.220
HR2 115/34	115	34	3.5	15	1.220
HR2 140/42	140	42	3.3	-	1.220
HR2 160/50	160	50	3.3	-	1.220
HR2 180/58	180	58	3.3	-	1.220
HR2 200/65	200	65	3.7	-	1.220
HR2 235/65	235	65	3.8	-	1.220
HR2 265/75	265	75	3.8	-	1.220
HR2 300/85	300	85	3.8	-	1.220
HR2 350/100	350	100	4.3	-	1.220
HR2 380/150	380	150	4.3	-	1.220
HR2 410/150	410	150	4.3	-	1.220

HRTM - Medium-wall heat shrink tubing - 3:1 - With adhesive (through co-extrusion) - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Length piece (mm)	
HRTM 8/2	8	2	1.8	1.000	1.220
HRTM 12/3	12	3	1.9	1.000	1.220
HRTM 16/5	16	5	1.9	1.000	1.220
HRTM 22/6	22	6	2.1	1.000	1.220
HRTM 28/6	28	6	2.6	1.000	1.220
HRTM 33/8	33	8	2.4	1.000	1.220
HRTM 40/12	40	12	2.4	1.000	1.220
HRTM 55/16	55	16	2.4	1.000	1.220
HRTM 65/19	65	19	2.6	1.000	1.220
HRTM 75/22	75	22	2.8	1.000	1.220
HRTM 85/25	85	25	3.1	1.000	1.220
HRTM 95/25	95	25	3.1	1.000	1.220
HRTM 115/34	115	34	3.5	1.000	1.220
HRTM 140/42	140	42	3.4	1.000	1.220
HRTM 160/50	160	50	3.4	1.000	1.220

2.5 Medium-wall heat shrink tubing

HRS - Medium-wall heat shrink tubing - 3:1 - With adhesive (mastic coating) - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with mastic coating
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type
				Length piece (mm)
HRS 33/8	33	8	2.6	1.220
HRS 40/12	40	12	2.6	1.220
HRS 55/16	55	16	2.7	1.220
HRS 75/22	75	22	3.0	1.220
HRS 95/25	95	25	3.2	1.220
HRS 115/34	115	34	3.5	1.220
HRS 140/42	140	42	3.3	1.220
HRS 160/50	160	50	3.3	1.220
HRS 180/58	180	58	3.3	1.220
HRS 200/65	200	65	3.3	1.220
HRS 235/65	235	65	3.7	1.220
HRS 265/75	265	75	3.8	1.220
HRS 300/75	300	75	3.8	1.220
HRS 350/100	350	100	4.3	1.220

HRA3 - Heavy-wall heat shrink tubing - 3:1 - With adhesive - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

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Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Length piece (mm)	
HRA3 9/3	9	3	2.0	1.000	1.220
HRA3 15/4	15	4	2.4	1.000	1.220
HRA3 22/6	22	6	2.7	1.000	1.220
HRA3 33/8	33	8	3.2	1.000	1.220
HRA3 40/12	40	12	4.0	1.000	1.220
HRA3 45/12	45	12	4.0	1.000	1.220
HRA3 55/16	55	16	4.0	1.000	1.220
HRA3 65/19	65	19	4.0	1.000	1.220
HRA3 75/22	75	22	4.0	1.000	1.220
HRA3 85/25	85	25	4.2	1.000	1.220
HRA3 95/30	95	30	4.2	1.000	1.220
HRA3 105/30	105	30	4.5	1.000	1.220
HRA3 115/34	115	34	4.2	1.000	1.220
HRA3 130/36	130	36	4.2	1.000	1.220
HRA3 160/50	160	50	4.2	1.000	1.220
HRA3 180/50	180	50	4.2	1.000	1.220
HRA3 200/60	200	60	4.2	1.000	1.220
HRA3 235/65	235	65	4.4	1.000	1.220
HRA3 265/75	265	75	4.8	1.000	1.220
HRA3 300/85	300	85	4.8	1.000	1.220
HRA3 350/100	350	100	4.8	1.000	1.220
HRA3 385/110	385	110	4.8	1.000	1.220

2.6 Heavy-wall heat shrink tubing

HR3 - Heavy-wall heat shrink tubing - 3:1 - Without adhesive - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: No
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Length piece (mm)	
HR3 9/3	9	3	2.0	1.000	1.220
HR3 13/4	13	4	2.4	1.000	1.220
HR3 22/6	22	6	2.7	1.000	1.220
HR3 33/8	33	8	3.2	1.000	1.220
HR3 40/12	40	12	4.0	1.000	1.220
HR3 45/12	45	12	4.0	1.000	1.220
HR3 55/16	55	16	4.0	1.000	1.220
HR3 65/19	65	19	4.0	1.000	1.220
HR3 75/22	75	22	4.0	1.000	1.220
HR3 85/25	85	25	4.2	1.000	1.220
HR3 95/30	95	30	4.2	1.000	1.220
HR3 105/30	105	30	4.5	1.000	1.220
HR3 115/34	115	34	4.2	1.000	1.220
HR3 130/36	130	36	4.2	1.000	1.220
HR3 160/50	160	50	4.2	1.000	1.220
HR3 180/50	180	50	4.2	1.000	1.220
HR3 200/60	200	60	4.2	1.000	1.220
HR3 235/65	235	65	4.4	1.000	1.220
HR3 265/75	265	75	4.8	1.000	1.220
HR3 300/85	300	85	4.8	1.000	1.220

HRTH - Heavy-wall heat shrink tubing - 3:1 - With adhesive (through co-extrusion) - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 3:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked co-extruded polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

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Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Length piece (mm)	
HRTH 12/3	12	3	2.0	1.000	1.220
HRTH 16/4	16	4	2.4	1.000	1.220
HRTH 24/6	24	6	2.6	1.000	1.220
HRTH 34/8	34	8	3.2	1.000	1.220
HRTH 43/12	43	12	4.0	1.000	1.220
HRTH 56/16	56	16	4.0	1.000	1.220
HRTH 75/20	75	20	4.0	1.000	1.220
HRTH 85/25	85	25	4.0	1.000	1.220
HRTH 95/25	95	25	4.0	1.000	1.220
HRTH 105/25	105	25	4.0	1.000	1.220
HRTH 115/34	115	34	4.0	1.000	1.220
HRTH 130/35	130	35	4.2	1.000	1.220

HRA-6X - Heavy-wall heat shrink tubing - 6:1 - With adhesive - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 6:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -35 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Length piece (mm)	
HRA-6X 19.0/3.2	19.0	3.2	3.2	1.220	
HRA-6X 33.0/5.5	33.0	5.5	3.4	1.220	
HRA-6X 44.4/7.4	44.4	7.4	3.6	1.220	
HRA-6X 50.8/8.3	50.8	8.3	4.7	1.220	
HRA-6X 69.8/11.7	69.8	11.7	4.7	1.220	
HRA-6X 88.9/17.1	88.9	17.1	4.7	1.220	
HRA-6X 119.4/22.9	119.4	22.9	4.7	1.220	
HRA-6X 235.0/40.0	235.0	40.0	4.7	1.220	

2.7 Repair heat shrink tubing

HRSL - Low voltage repair sleeve - 4:1 - With adhesive - For cable repairs - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 4:1
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -40 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type				
				Length piece (mm)				
HRSL 36/10	36	10	3.2	250	500	750	1.000	1.500
HRSL 55/13	55	13	3.2	250	500	750	1.000	1.500
HRSL 85/22	85	22	3.2	250	500	750	1.000	1.500
HRSL 108/27	108	27	3.2	250	500	750	1.000	1.500
HRSL 136/30	136	30	3.2	250	500	750	1.000	1.500
HRSL 180/50	180	50	3.2	250	500	750	1.000	1.500

HBTM - Medium-wall busbar insulation tubing (up to 36kV) - 2.5:1 - Operating temperature up to 120 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2.5:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -40 °C up to +120 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Modified polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Brown/red (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Reel (meter)	Length piece (mm)
HBTM 15/6	15	6	2.0	30	
HBTM 25/10	25	10	2.3	30	
HBTM 30/12	30	12	2.5	30	
HBTM 40/16	40	16	2.5	30	
HBTM 50/20	50	20	2.5	15	
HBTM 65/25	65	25	2.5	15	
HBTM 75/30	75	30	2.6	15	
HBTM 100/40	100	40	2.8	15	
HBTM 120/50	120	50	2.8	15	

HBTH - Heavy-wall busbar insulation tubing (up to 36kV) - 2.5:1 - Operating temperature up to 120 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2.5:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -40 °C up to +120 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Modified polyolefin
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Brown/red (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (min.)	Packaging type	
				Reel (meter)	Length piece (mm)
HBTH 25/10	25	10	3.9	15	1.220
HBTH 40/16	40	16	4.0	15	1.220
HBTH 50/20	50	20	4.0	15	1.220
HBTH 65/25	65	25	4.0	15	1.220
HBTH 75/30	75	30	4.0	15	1.220
HBTH 95/30	95	30	4.0	15	1.220
HBTH 120/40	120	40	4.1	15	1.220
HBTH 180/58	180	58	4.1	-	1.220

2.9 Heat shrinkable moulded parts

HLB - Heat shrinkable cable breakouts - With adhesive - Low voltage - With 2 to 5 cores - Operating temperature up to 110 °C



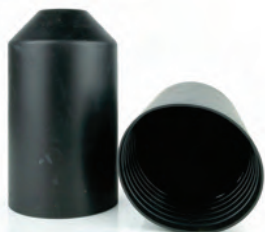
Technical specifications

Brand	: WKK (produced by Hongshang)
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	Number of cores	As supplied: inner diameter large in mm (min.)	As supplied: inner diameter small in mm (min.)	After recovery: wall thickness in mm (min.)	After recovery: inner diameter large in mm (max.)	After recovery: inner diameter small in mm (min.)	After recovery: length in mm
HLB 205	2	22	9	2.2	8	3.5	55
HLB 210	2	30	14	2.6	12	4.5	93
HLB 215	2	40	15	2.1	16	5.0	125
HLB 220	2	60	25	2.6	23	7.5	118
HLB 220L	2	60	25	2.6	23	7.5	155
HLB 230	2	100	30	3.1	42	9.0	155
HLB 240	2	150	20	3.8	75	6.0	170
HLB 310	3	38	14	2.7	17	4.5	98
HLB 310L	3	40	15	2.1	16	4.5	125
HLB 320	3	60	25	3.0	25	8.0	165
HLB 320L	3	60	25	3.2	24	8.0	180
HLB 330	3	80	35	3.5	38	11.0	185
HLB 330L	3	80	35	4.0	38	11.0	215
HLB 340	3	110	46	4.0	50	17.5	250
HLB 350	3	125	55	4.0	57	20.0	260
HLB 360	3	140	62	4.0	70	26.0	280
HLB 370	3	170	75	4.0	77	28.0	280
HLB 410	4	42	14	2.2	15	3.5	105
HLB 420	4	55	20	3.1	21	5.0	150
HLB 425	4	65	26	3.3	26	7.0	175
HLB 430	4	75	28	3.3	26	7.0	175
HLB 440	4	82	30	4.0	37	9.0	190
HLB 445	4	90	32	4.0	37	9.0	190
HLB 450	4	102	38	4.0	47	12.0	198
HLB 460	4	130	52	4.0	52	15.0	240
HLB 470	4	160	64	4.0	70	19.0	260
HLB 510	5	40	13	2.5	19	4.0	98
HLB 520	5	55	18	3.2	24	5.0	155
HLB 530	5	80	26	3.0	33	8.0	175
HLB 540	5	100	34	3.0	42	10.0	190

HSEC - Heat shrinkable cable end cap - With adhesive - Operating temperature up to 110 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -55 °C up to +110 °C
Minimum full recovery temperature	: +120 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm	After recovery: length in mm
HSEC 105	12	4	2.6	40
HSEC 110	14	5	2.2	42
HSEC 115	20	6	2.5	55
HSEC 120	25	8.5	2.5	65
HSEC 130	35	16	3.3	83
HSEC 135	40	16	3.3	75
HSEC 140	55	26	3.5	105
HSEC 150	75	36	4.2	115
HSEC 160	100	47	5.0	130
HSEC 170	120	60	5.0	150
HSEC 180	145	60	5.0	150
HSEC 190	160	80	4.5	133
HSEC 110L	14	5	2.5	55
HSEC 130L	40	15	3.3	90
HSEC 140L	55	23	3.5	140
HSEC 145L	62	23	3.5	140
HSEC 150L	75	32	4.0	140
HSEC 150XL	75	36	4.2	170
HSEC 160L	100	47	4.0	155
HSEC 190XL	160	70	4.5	133

2.9 Heat shrinkable moulded parts

HCFT - Heat shrinkable cable feed throughs - With adhesive - Low voltage - Operating temperature up to 110 °C

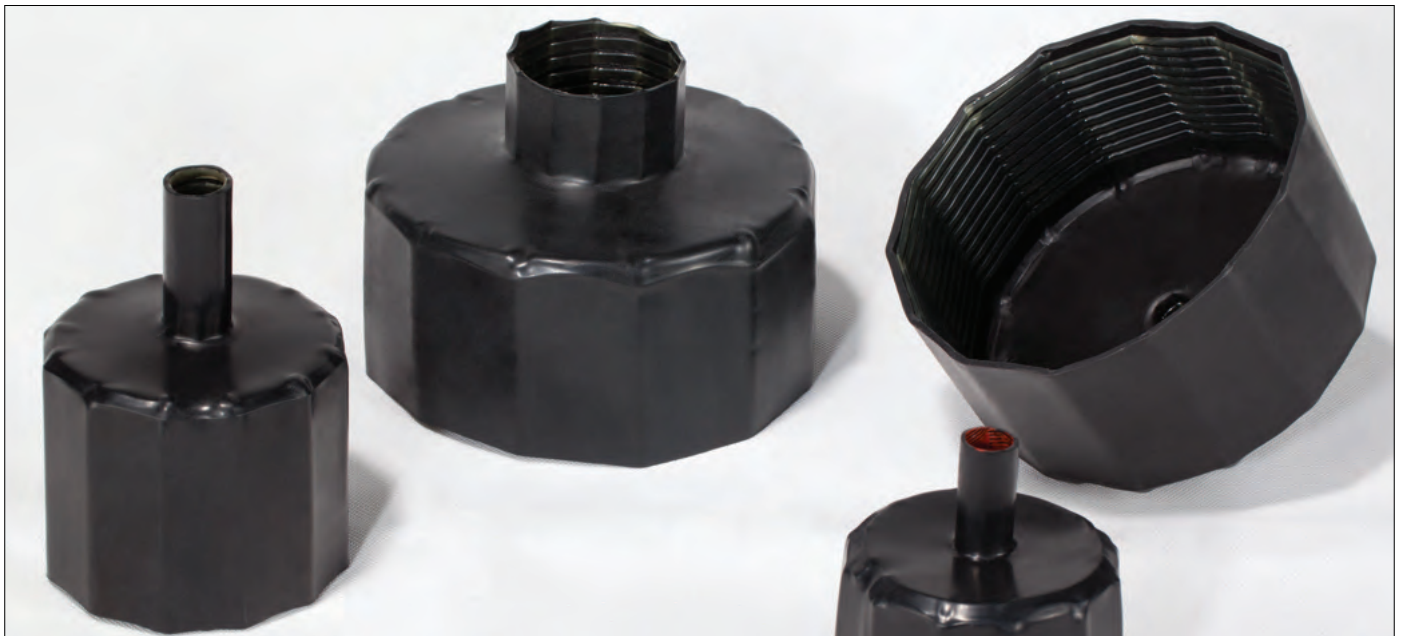


Technical specifications

Brand	: WKK (produced by Hongshang)
Flame retardant	: No
Adhesive	: Yes
Operating temperature	: -40 °C up to +110 °C
Minimum full recovery temperature	: +130 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin with hot melt adhesive
Halogen-free	: Yes
Approvals	: RoHS
Available color	: Black (UV resistant)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	As supplied: inside diameter large in mm (min.)	As supplied: inside diameter small in mm (min.)	After recovery: inside diameter large in mm (max.)	After recovery: inside diameter small in mm (max.)	After recovery: wall thickness large in mm	After recovery: length small in mm
HCFT 110	85	15	42	5	2.8	130
HCFT 120	60	45	30	10	2.6	135
HCFT 130	100	20	52	8	3.0	170
HCFT 135	150	14	92	5	3.5	150
HCFT 140	160	60	92	20	3.0	145
HCFT 150	160	100	92	45	3.5	145



Heat shrink tubing assortment (Mixed colors - 127 pieces) - H-2(Z) - Thin-wall heat shrink tubing - 2:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type / Size	Length in mm	Quantity (pieces)
H-2(Z) 1.6/0.8	35	30
H-2(Z) 2.4/1.2	35	25
H-2(Z) 3.2/1.6	35	20
H-2(Z) 4.8/2.4	35	20
H-2(Z) 6.4/3.2	70	16
H-2(Z) 9.5/4.8	70	8
H-2(Z) 12.7/6.4	80	8

Heat shrink tubing assortment (Black - 127 pieces) - H-2(Z) - Thin-wall heat shrink tubing - 2:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type/Size	Length in mm	Quantity (pieces)
H-2(Z) 1.6/0.8	35	30
H-2(Z) 2.4/1.2	35	25
H-2(Z) 3.2/1.6	35	20
H-2(Z) 4.8/2.4	35	20
H-2(Z) 6.4/3.2	70	16
H-2(Z) 9.5/4.8	70	8
H-2(Z) 12.7/6.4	80	8

2.10 Heat shrink tubing assortments and displays

Heat shrink tubing assortment (Black - 465 pieces) - H-2(Z) - Thin-wall heat shrink tubing - 2:1 - Operating temperature up to 125 °C



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio	: 2:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: No
Operating temperature	: -55 °C up to +125 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: No
Approvals	: UL E204071, CSA, RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type/Size	Length in mm	Quantity (pieces)
H-2(Z) 2.4/1.2	35	120
H-2(Z) 3.2/1.6	35	100
H-2(Z) 4.8/2.4	35	80
H-2(Z) 6.4/3.2	35	60
H-2(Z) 9.5/4.8	70	65
H-2(Z) 12.7/6.4	70	15
H-2(Z) 16.0/8.0	100	15
H-2(Z) 19.0/9.5	70	5
H-2(Z) 25.4/12.7	70	5

Heat shrink tubing assortment with display (Black, 295 pieces) - H-2(Z) & H-5(3X)-F - Heat shrink tubing



Technical specifications

Brand	: WKK (produced by Hongshang)
Shrink ratio H-2(Z)	: 2:1
Shrink ratio H-5(3X)-F	: 3:1
Flame retardant	: Yes
Self-extinguishing	: Yes
Adhesive	: H-5(3X)-F only
Operating temperature H-2(Z)	: -55 °C up to +125 °C
Operating temperature H-5(3X)-F	: -55 °C up to +135 °C
Minimum shrink temperature	: +70 °C
Minimum full recovery temperature	: +110 °C
Longitudinal change	: 0 up to 10% max.
Material quality	: Crosslinked polyolefin
Halogen-free	: No
Approvals H-2(Z)	: UL E204071, CSA, RoHS,
Approvals H-5(3X)-F	: UL E204071, CSA, RoHS, MIL-SPEC

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type/Size	Length in mm	Quantity (pieces)
H-2(Z) 2.4/1.2	1.220	50
H-2(Z) 3.2/1.6	1.220	50
H-2(Z) 4.8/2.4	1.220	25
H-2(Z) 6.4/3.2	1.220	25
H-2(Z) 9.5/4.8	1.220	10
H-2(Z) 12.7/6.4	1.220	10
H-5(3X)-F 3.0/1.0	1.220	50
H-5(3X)-F 4.8/1.5	1.220	25
H-5(3X)-F 6.0/2.0	1.220	25
H-5(3X)-F 9.0/3.0	1.220	10
H-5(3X)-F 12.0/4.0	1.220	10
H-5(3X)-F 19.0/6.0	1.220	5

Display for heat shrink tubing miniboxes



Technical specifications

Brand	: WKK
Color	: White (RAL 9003)
Material quality	: Metal
For number of miniboxes	: 6
Dimensions in cm (H x W x D)	: 18.7 x 34.4 x 16.4
Weight (empty)	: 1.45kg

Scan this QR code for article numbers, current prices and stock information and to order directly.

HG 330-B - Heat gun Weldy - Suitable for heat shrink tubing



Scan this QR code for article numbers, current prices and stock information and to order directly.

Product information:

- Combines efficiency with solid performance
- Two fast temperature switching stages and two stage blower
- Ergonomic handle for easy handling
- Supplied in box

Technical specifications

Brand	: Weldy
Color	: Black / Blue
Voltage	: 230 V
Power	: 1600 W
Temperature range (°C)	: +350 - +550 °C
Air volume	: 350 - 550 l/min
Dimensions L x W x H (mm)	: 250 x 80 x 230
Weight (kg)	: 0.70 kg



HG 330-S - Heat gun Weldy - Suitable for heat shrink tubing



Scan this QR code for article numbers, current prices and stock information and to order directly.

Product information:

- Quick, infinite variable temperature adjustment
- Versatile and easy to use, with an ergonomic design
- High heat and blowing performance
- Supplied in case

Technical specifications

Brand	: Weldy
Color	: Black / Blue
Voltage	: 230 V
Power	: 2000 W
Temperature range (°C)	: +80 - +600 °C
Air volume	: 250 - 550 l/min
Dimensions L x W x H (mm)	: 250 x 80 x 230
Weight (kg)	: 0.70 kg



HG 330-A - Heat gun Weldy - Suitable for heat shrink tubing

**Product information:**

- Digital temperature control so that the set temperature is fixed and remains constant
- Ergonomic handle for easy use
- Memory function with five storage slots for temperature and blow settings
- Supplied in case

Technical specifications

Brand	: Weldy
Color	: Black / Blue
Voltage	: 230 V
Power	: 2300 W
Temperature range (°C)	: +80 - +650 °C
Air volume	: 200 - 550 l/min
Dimensions L x W x H (mm)	: 250 x 80 x 230
Weight (kg)	: 0.75 kg

Scan this QR code for article numbers, current prices and stock information and to order directly.





3. Fixation clips

Fixation clips offer a strong attachment for and guidance of cables, connectors or corrugated tubing in vehicles, on profiles or on sheet metal.

Quality and production

WKK has its own production facility through its subsidiary WKK Automotive. The clips are manufactured from polyamide 6.6 HS, if necessary with an extra stainless spring steel clamp. All clips are therefore heat, weather and impact resistant.

The benefit for you? If you have a specific wish/need/application, we can design and produce a custom clip for you.

Functionalities of the clips

All clips have basically two functions:

- Mounting at the desired location of the vehicle, sheet metal or profile.
- Fastening and guiding the cable(s), connector or corrugated tube in the desired direction.

Mounting at the desired location

The fixation clips can be mounted in three different ways at the desired location:

- By means of an edge clip
- By means of a fir tree foot
- By means of an arrowhead foot

All three of these types of clips come in different sizes and applications.

Fixation and guidance of the cable(s), connector or corrugated tube

When choosing the right clip, it is important to know how and in which direction you want to mount and guide your product. WKK also has a number of different basic methods for this:

1. By means of a supplied cable tie
2. By means of an integral clamp
3. By means of an integral clip



3.2 Fixation clips

Edge clips



Technical specifications

Plastic clip / Cable tie : Polyamide 6.6 HS, black, impact resistant, heat resistant, UV resistant
 Metal clamp : Spring steel, hardened coated surface to ensure protection against corrosion
 Temperature range : -40 °C up to +120 °C (short time 140 °C)

Scan this QR code for article numbers, current prices and stock information and to order directly.

Fixation clip type	Profile thickness (in mm)	Position of cable in relation to profile	Cable tie orientation	PU (pcs.)
KC1 *	0.7 - 3.0	Top	Perpendicular on the profile	100/500
KC2 *	0.7 - 3.0	Side	Perpendicular on the profile	100/500
KC3 *	0.7 - 3.0	Top	Parallel direction of the profile	100/500
KC5 *	0.7 - 3.0	Side	Parallel direction of the profile	100/500
KC15 *	0.7 - 3.0	Top and side	Four directions	100/500
KC17 **	0.7 - 3.0	Top	Perpendicular on the profile	100/500
KC18 **	0.7 - 3.0	Side	Perpendicular on the profile	100/500
KC19 **	0.7 - 3.0	Top	Parallel direction of the profile	100/500
KC20 **	0.7 - 3.0	Side	Parallel direction of the profile	100/500
KC126 *	0.7 - 3.0	Side	Four directions	100/500
KC107 *	3.0 - 6.0	Top and side	Four directions	100/500
KC87 *	3.0 - 6.0	Top	Parallel direction of the profile	100/500
KC88 *	3.0 - 6.0	Top	Perpendicular on the profile	100/500
KC89 *	3.0 - 6.0	Side	Perpendicular on the profile	100/500
KC90 *	3.0 - 6.0	Side	Parallel direction of the profile	100/500

* = Also available with cable tie: 200 x 4.8 mm

** = Supplied with integrated cable tie: 160 x 3.6 mm





KC1



KC2



KC3



KC5



KC15



KC17



KC18



KC19



KC20



KC126



KC107



KC 87



KC88



KC89



KC90

3.2 Fixation clips

Edge clips for corrugated tubing



Technical specifications

Plastic clip : Polyamide 6.6 HS, black, impact resistant, heat resistant, UV resistant
 Metal clamp material : Spring steel, hardened coated surface to ensure protection against corrosion
 Temperature range : -40 °C up to +120 °C (short time 140 °C)

Scan this QR code for article numbers, current prices and stock information and to order directly.

Fixation clip type	Profile thickness (in mm)	NW/DN size	Inner size (in mm)	Position of corrugated tube in relation to profile	Corrugated tubing orientation	PU (pcs.)
KC24	0.7 - 3.0	4.5	7.3	Top	Parallel direction of the profile	100/500
KC21	0.7 - 3.0	7.5	10.0	Top	Parallel direction of the profile	100/500
KC32	0.7 - 3.0	17.0	21.2	Top	Parallel direction of the profile	100/500
KC30	3.0 - 6.0	4.5	7.3	Top	Parallel direction of the profile	100/500
KC12	3.0 - 6.0	13.0	15.8	Top	Parallel direction of the profile	100/500
KC23	0.7 - 3.0	4.5	7.3	Top	Perpendicular on the profile	100/500
KC22	0.7 - 3.0	10.5	13.0	Top	Perpendicular on the profile	100/500
KC31	0.7 - 3.0	13.0	15.8	Top	Perpendicular on the profile	100/500
KC35	0.7 - 3.0	2x 10.0	2x 13.0	Side	Parallel direction of the profile	100/500
KC25	0.7 - 3.0	4.5	7.3	Side	Parallel direction of the profile	100/500
KC26	0.7 - 3.0	10.0	13.0	Side	Parallel direction of the profile	100/500
KC36	0.7 - 3.0	13.0	15.8	Side	Parallel direction of the profile	100/500
KC28	3.0 - 6.0	4.5	7.3	Side	Parallel direction of the profile	100/500
KC29	3.0 - 6.0	7.5	10.0	Side	Parallel direction of the profile	100/500
KC27	3.0 - 6.0	10.0	13.0	Side	Parallel direction of the profile	100/500
KC42	3.0 - 6.0	14.0	18.5	Side	Parallel direction of the profile	100/500
KC71	0.7 - 3.0	14.0	18.5	Side	Parallel direction of the profile	100/500





KC24



KC21



KC32



KC30



KC12



KC23



KC22



KC31



KC35



KC25



KC26



KC36



KC28



KC29



KC27



KC42



KC71

3.2 Fixation clips

Solar clips



Technical specifications

Plastic clip / Cable tie : Polyamide 6.6 HS, black, impact resistant, heat resistant, UV resistant
 Metal clamp : Spring steel, hardened coated surface to ensure protection against corrosion
 Temperature range : -40 °C up to +120 °C (short time 140 °C)

Scan this QR code for article numbers, current prices and stock information and to order directly.

Fixation clip type	Mounting of clip	Mounting of cable	Position of cable in relation to profile	Cable tie orientation	PU (pcs.)
SKC1	Profile thickness of 0.7 - 3.0 mm	2x 6.0 mm, without cable tie	Side	-	100
SKC2	Profile thickness of 0.7 - 3.0 mm	2x 6.0 mm, without cable tie	Side	-	100
SKC4	Profile thickness of 0.7 - 3.0 mm	2x 6.0 mm, without cable tie	Top	-	100
SC1 *	M10 / 7.0 mm deep	Fixation with cable tie	Top	Perpendicular on the profile	100
SC2 *	M8 / 6.9 mm deep	Fixation with cable tie	Top	Parallel direction of the profile	100
SC5 *	M12 / 5.0 mm deep	Fixation with cable tie	Top	Two directions	100

* = Also available with cable tie: 200 x 4.8 mm



SKC1



SKC2



SKC4



SC1



SC2



SC5

Clips with fir tree & with arrowhead



Technical specifications

Clip : Polyamide 6.6 HS, black, impact resistant, heat resistant, UV resistant
 Temperature range : -40 °C to +120 °C (short time 140 °C)

Scan this QR code for article numbers, current prices and stock information and to order directly.

Fixation clip type	Hole diameter (in mm)	Sheet thickness (in mm)	Cable diameter (in mm)	PU (pcs.)
LFC1 *	∅ 6.3 - 7.0	0.5 - 6.0	1.0 - 45.0	100/500
LFC2 *	∅ 6.3 - 7.0	0.5 - 3.0	1.0 - 45.0	100/500
LC1 *	∅ 6.5 ± 0.2	0.7 - 2.0	1.0 - 45.0	100/500
LC2 *	∅ 6.5 ± 0.2	2.0 - 3.5	1.0 - 45.0	100/500
LC3 *	∅ 6.5 - 7.0	1.8 - 2.8	1.0 - 45.0	100/500
LFC6	∅ 6.3 - 7.0	0.7 - 6.0	4.5 - 6.0	100/500

* = Also available with cable tie: 200 x 4.8 mm



LFC1



LFC2



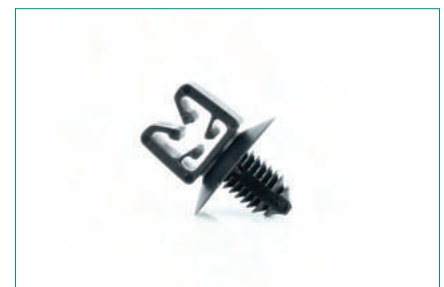
LC1



LC2



LC3



LFC6



4. Cable glands and accessories

Are you looking for cable glands? WKK supplies high-quality cable glands from one of the largest cable gland specialists in the world: Jacob. Our standard range consists of plastic and metal cable glands (brass and stainless steel). These products are available in the thread types metric and Pg. We also offer cable gland accessories and special versions of cable glands, such as NPT, Ex and EMC.

What is a cable gland?

A cable gland is a special type of cable entry. It is a product for safely feeding cables through a wall, cabinet system or junction box as protection against continuous rubbing/abrasion and to prevent liquids and gasses from leaking along the cable. Therefore, the product is used to attach and secure the end of electrical cables to an intended device or end point.

Why cable glands?

Any opening through which cables run is a weak spot. Damage to your cables, equipment and even short circuits are risks you want to prevent. A cable gland is the solution to achieve protection against external influences. The cable gland ensures a safe and complete seal.

A cable gland guarantees, among other things, grounding, bonding, insulation and strain relief. The main purpose of a cable gland is to ensure a safe seal, which guarantees the protection of electrical equipment and housings.

Protective properties of cable glands

The choice for the correct type of cable gland depends on the application. It is important that you take into account the following protective properties:

- Protection against various environmental influences. Does the product have to be resistant to water and moisture, UV radiation, dust, et cetera? If you work in an environment with a risk of explosion, you choose the special Ex version.
- Protection against chemicals, such as: liquids, acids, salts, bases, chlorides, etc. Chemical resistance may be necessary due to environmental influences, but also due to the use of certain maintenance products.
- Mechanical protection, if there is voltage on the cables. A big advantage of cable glands is their robustness. Also, it is important to determine in advance whether the cables should be able to move. In other words: is there static or dynamic tensile stress?
- Thermal protection, such as operating temperature (heat resistance) and product lifetime.
- Electromagnetic protection to prevent malfunctions in situations with multiple electronic components. EMC versions (electromagnetic compatibility) are used in these situations.

Choose the right material quality

The WKK cable gland assortment consists of the materials plastic and metal (brass and stainless steel). The plastic cable glands are available in the material quality Polyamide 6. The metal cable glands are available in nickel-plated brass and stainless steel 1.4305.

For standard applications without extreme weather influences, choose plastic cable glands. If there are significant weather conditions, you probably need nickel-plated brass. If there is a high degree of chemical substances, corrosion or exposure to salt, stainless steel is often the right choice. Not sure which cable gland is best for your intended application(s)? Then contact our specialists. They will be happy to help with selecting the correct cable gland.

Thread types: metric and Pg

WKK offers the cable gland thread types metric and Pg. The universal standard in the market is metric. The pitch is always 1.5 mm, regardless of the size of the cable gland. Furthermore, the product has a top angle of 60 degrees.

Pg has a varying pitch length. This depends on the size of the cable gland. Pg is the old German industry standard and has a top angle of 80 degrees.

Quality: high safety requirements and standards

WKK sells cable glands that meet high safety requirements and standards. This is crucial for professionals and buyers. Our products are widely used in production and sensitive environments and have an IP code (protection grade), EN and UL standard. Therefore you know exactly what to expect from our products.

Cable gland connecting threads

Are you looking for a special connecting thread and/or size? Or do you want to buy a complete range? WKK supplies many sizes per type of cable gland in the thread types metric and Pg. We supply the commonly used sizes M16, M20, M25 and Pg9, Pg11, Pg13.5. In addition, special sizes are also supplied. The size differences are based on the clamping range.

Cable gland accessories

In addition to cable glands, WKK also supplies accessories for cable glands. You can think of, among other things, locknuts, screw plugs, enlargers, reducers, elbow cable glands, venting elements, sealing inserts, blanking plugs, O-rings and sealing grommets. These accessories ensure an extensive range of complementary products for your cable glands. As a result, you are guaranteed to find the products you are looking for.

The German brand Jacob

Jacob is one of the largest and most reliable cable gland specialists in the world. All Jacob cable glands are of high quality and guarantee a safe cable entry.

Complete partner

As an experienced supplier in the field of cable glands, WKK is a complete partner. Our helpful advisers do not only help you with selecting the correct products, but also provide many additional services. Do you temporarily have no stock space? No problem, we are happy to take care of your call orders. Or do you want to try one of our products for free? Then, request a sample.



4.2 Plastic cable glands & accessories - Metric

Plastic cable glands - Metric - IP68



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Polyamide PA6 V-2
 Connecting thread : Metric (EN 60423)
 Temperature range : -20 °C up to +100 °C
 Protection grade : IP68 – 5 bar
 Approvals : UL, CSA, DNV
 Available colors : Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ●
 Black (RAL 9005)= ●

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
50.612 PAzzzz	M12 x 1.5	3.0 - 6.5	8	100
50.612 PAzzzzL	M12 x 1.5	3.0 - 6.5	15	100
50.616 PAzzzz	M16 x 1.5	5.0 - 9.5	8	100
50.616 PAzzzzL	M16 x 1.5	5.0 - 9.5	15	100
50.620 PAzzzz	M20 x 1.5	8.0 - 13.0	8	100
50.620 PAzzzzL	M20 x 1.5	8.0 - 13.0	15	100
50.625 PAzzzz	M25 x 1.5	11.0 - 17.0	8	50
50.625 PAzzzzL	M25 x 1.5	11.0 - 17.0	15	50
50.632 PAzzzz*	M32 x 1.5	15.0 - 21.0	10	25
50.632 PAzzzzL*	M32 x 1.5	15.0 - 21.0	15	25
50.640 PAzzzz*	M40 x 1.5	19.0 - 28.0	10	10
50.640 PAzzzzL*	M40 x 1.5	19.0 - 28.0	18	10
50.650 PAzzzz*	M50 x 1.5	27.0 - 35.0	12	5
50.650 PAzzzzL*	M50 x 1.5	27.0 - 35.0	18	5
50.663 PAzzzz*	M63 x 1.5	32.0 - 42.0	12	5
50.663 PAzzzzL*	M63 x 1.5	32.0 - 42.0	18	5

* = Available with sealing ring

Plastic hexagonal locknuts - Metric



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Available colors : Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ●
 Black (RAL 9005)= ●

Art. no.	Connecting thread	Height (mm)	PU (pcs.)
50.212 PAzzzz	M12 x 1.5	5	100
50.216 PAzzzz	M16 x 1.5	5	100
50.220 PAzzzz	M20 x 1.5	6	100
50.225 PAzzzz	M25 x 1.5	6	100
50.232 PAzzzz	M32 x 1.5	7	100
50.240 PAzzzz	M40 x 1.5	7	50
50.250 PAzzzz	M50 x 1.5	8	50
50.263 PAzzzz	M63 x 1.5	8	50

Plastic screw plugs - Metric



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP54
 : IP66 / IP68 possible when using an additionally mounted sealing ring
 Available colors : Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ● Black (RAL 9005)= ●

Art. no.	Connecting thread	Ø (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
10.1215 PAZZZZ	M12 x 1.5	15	6	10.0	100
10.1615 PAZZZZ	M16 x 1.5	20	6	10.5	100
10.2015 PAZZZZ	M20 x 1.5	24	6	10.5	100
10.2515 PAZZZZ	M25 x 1.5	30	8	13.0	100
10.3215 PAZZZZ	M32 x 1.5	37	8	13.5	100
10.4015 PAZZZZ	M40 x 1.5	46	8	14.0	50
10.5015 PAZZZZ	M50 x 1.5	56	10	16.5	50
10.6315 PAZZZZ	M63 x 1.5	70	12	17.0	50

Plastic enlargers - Metric



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : Metric (EN 60423)
 Temperature range : -30 °C up to +100 °C
 Protection grade : Dependent on the combination with other components
 Available colors : Light grey (RAL 7035)= ● Black (RAL 9005)= ●

Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
M12M16PA	M12 x 1.5 - M16 x 1.5	8	20.5	100
M16M20PAZZZZ	M16 x 1.5 - M20 x 1.5	8	20.5	100
M20M25PAZZZZ	M20 x 1.5 - M25 x 1.5	8	21.0	100
M25M32PAZZZZ	M25 x 1.5 - M32 x 1.5	8	23.0	50
M32M40PA	M32 x 1.5 - M40 x 1.5	10	25.0	50

Plastic reducers - Metric



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Available colors : Light grey (RAL 7035)= ● Black (RAL 9005)= ●

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Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
M16M12 PAZZZZ	M16 x 1.5 - M12 x 1.5	8	12	100
M20M12 PAZZZZ	M20 x 1.5 - M12 x 1.5	8	12	100
M20M16 PAZZZZ	M20 x 1.5 - M16 x 1.5	8	12	100
M25M12 PAZZZZ	M25 x 1.5 - M12 x 1.5	8	14	100
M25M16 PAZZZZ	M25 x 1.5 - M16 x 1.5	8	14	100
M25M20 PAZZZZ	M25 x 1.5 - M20 x 1.5	8	14	100
M32M12 PAZZZZ	M32 x 1.5 - M12 x 1.5	10	16	50
M32M16 PAZZZZ	M32 x 1.5 - M16 x 1.5	10	16	50
M32M20 PAZZZZ	M32 x 1.5 - M20 x 1.5	10	16	50
M32M25 PAZZZZ	M32 x 1.5 - M25 x 1.5	10	16	50
M40M16 PAZZZZ	M40 x 1.5 - M16 x 1.5	10	16	50
M40M20 PAZZZZ	M40 x 1.5 - M20 x 1.5	10	16	50
M40M25 PAZZZZ	M40 x 1.5 - M25 x 1.5	10	16	50
M40M32 PAZZZZ	M40 x 1.5 - M32 x 1.5	10	16	50
M50M20 PAZZZZ	M50 x 1.5 - M20 x 1.5	12	18	25
M50M25 PAZZZZ	M50 x 1.5 - M25 x 1.5	12	18	25
M50M32 PAZZZZ	M50 x 1.5 - M32 x 1.5	12	18	25
M50M40 PAZZZZ	M50 x 1.5 - M40 x 1.5	12	18	25
M63M25 PAZZZZ	M63 x 1.5 - M25 x 1.5	12	18	25
M63M32 PAZZZZ	M63 x 1.5 - M32 x 1.5	12	18	25
M63M40 PAZZZZ	M63 x 1.5 - M40 x 1.5	12	18	25
M63M50 PAZZZZ	M63 x 1.5 - M50 x 1.5	12	18	25

Plastic Ex-cable glands - Metric - IP66



Technical specifications

Brand	: Jacob
Material	: Polyamide PA6
Connecting thread	: Metric (EN 60423)
Group (zone)	: II 2G (1, 2), II 2D (21, 22)
Marking	: Ex e IIC Gb, Ex tb IIIC Db
Temperature range	: -20 °C up to +70 °C (M12, M16, M20, M25, M32) : -55 °C up to +70 °C (M40, M50, M63)
Protection grade	: IP66
Test standard	: EN 60079-0:2012, IEC 60079-0:2011 : EN 60079-7:2007, IEC 60079-7:2006 : EN 60079-31:2009, IEC 60079-31:2008
EC-type certificate	: PTB 99 ATEX 3101 X (M12 x 1.5 - M16 x 1.5) : PTB 99 ATEX 3128 X (M20 x 1.5 - M63 x 1.5) : PTB 14 ATEX 1015 X
IECEx certificate	: IECEx PTB 05.0004X, IECEx PTB 14.0027X
Available colors	: Black (RAL 9005)= ● Blue (RAL 5015)= ●

For other Ex-products, see pages 111, 112, 117 & 118

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
GHG9601955R0101	M12 x 1.5	5.0 - 7.0	8	20
GHG9601955R0121	M12 x 1.5	5.0 - 7.0	12	20
GHG9601955R0102	M16 x 1.5	7.0 - 10.0	8	20
GHG9601955R0122	M16 x 1.5	7.0 - 10.0	12	20
GHG9601955R0103	M20 x 1.5	9.5 - 13.0	8	20
GHG9601955R0123	M20 x 1.5	9.5 - 13.0	13	20
GHG9601955R0104	M25 x 1.5	13.5 - 17.5	8	20
GHG9601955R0124	M25 x 1.5	13.5 - 17.5	13	20
GHG9601955R01zz	M32 x 1.5	17.5 - 21.0	10	20
GHG9601955R01zz	M32 x 1.5	17.5 - 21.0	15	20
GHG9601955R0106	M40 x 1.5	22.0 - 28.0	10	10
GHG9601955R0126	M40 x 1.5	22.0 - 28.0	15	10
GHG9601955R0107	M50 x 1.5	28.0 - 35.0	12	10
GHG9601955R0127	M50 x 1.5	28.0 - 35.0	16	10
GHG9601955R0108	M63 x 1.5	36.0 - 48.0	12	5
GHG9601955R0128	M63 x 1.5	36.0 - 48.0	16	5

* = No inner sealing part

Plastic AirVent cable glands - Metric



Technical specifications

Brand	: Jacob
Material	: Polyamide PA6 V-0
Material sealing ring	: Polychloroprene-Nitrile rubber CR/NBR
Material membrane	: Polytetrafluorethylene PTFE
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP66 / IP68 - 0.2 bar (30 min.)
Available colors	: Light grey (RAL 7035)= ● Black (RAL 9005)= ●

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Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	Height (mm)	RQ* l/h	PU (pcs.)
K348-1012-zz	M12x1.5	3 - 6.5	8	36	ca. 57	5
K348-1016-zz	M16x1.5	5 - 9.5	8	40	ca. 57	5
K348-1020-zz	M20x1.5	8 - 13	8	41.5	ca. 57	5

* RQ = theoretical air flow through usable surface at p = 0.07 bar

4.2 Plastic cable glands & accessories - Metric

Plastic cable glands with spiral top - Metric - IP68



Technical specifications

Brand	: Jacob
Material	: Polyamide PA6 V-2
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 – 5 bar
Approvals	: UL, CSA
Available colors	: Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ● Black (RAL 9005)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
50007M12zzzz	M12 x 1.5	3.0 - 6.5	8	63.5	100
50011M16zzzz08	M16 x 1.5	5.0 - 10.0	8	87.5	100
50011M16zzzz	M16 x 1.5	5.0 - 10.0	15	94.5	100
50013M20zzzz08	M20 x 1.5	6.0 - 12.0	8	98.5	50
50013M20zzzz	M20 x 1.5	6.0 - 12.0	11	101.5	50
50016M20zzzz08	M20 x 1.5	10.0 - 14.0	8	109.0	25
50016M20zzzz	M20 x 1.5	10.0 - 14.0	15	116.0	25
50021M25zzzz08	M25 x 1.5	13.0 - 18.0	8	125.5	25
50021M25zzzz	M25 x 1.5	13.0 - 18.0	15	132.5	25

Plastic AirVent cable glands - Metric - With inner sealing ring



Technical specifications

Brand	: Jacob
Material	: Polyamide PA6 V-0
Material outer sealing ring	: Polychloroprene-Nitrile rubber CR/NBR
Material inner sealing ring	: TPE TPS
Material membrane	: Polytetrafluorethylene PTFE
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP66 / IP68 – 0.2 bar (30 min.)
Available colors	: Light grey (RAL 7035)= ● Black (RAL 9005)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. No.	Connecting thread	Cable diameter (mm)	Thread length (mm)	Height (mm)	RQ* l/h	PU (pcs.)
K349-1012-zz	M12x1.5	2 - 5	8	36	ca. 57	5
K349-1016-zz	M16x1.5	3 - 9.5	8	40	ca. 57	5
K349-1020-zz	M20x1.5	5 - 13	8	41.5	ca. 57	5

* RQ = theoretical air flow through usable surface at p = 0.07 bar

Plastic cable glands - Pg - IP68



Technical specifications

Brand	: Jacob
Material	: Polyamide PA6 V-2
Connecting thread	: PG (DIN 40430)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 – 5 bar
Approvals:	: UL, CSA
Available colors	: Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ● Black (RAL 9005)= ●



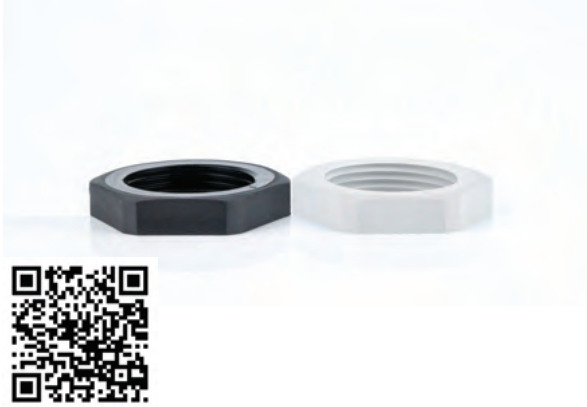
Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
50.007 PAzzzz	PG7	3.0 - 6.5	8	100
50.007 zz(zz)15	PG7	3.0 - 6.5	15	100
50.009 PAzzzz	PG9	4.0 - 8.0	8	100
50.009 zz(zz)15	PG9	4.0 - 8.0	15	100
50.011 PAzzzz	PG11	5.0 - 10.0	8	100
50.011 zz(zz)15	PG11	5.0 - 10.0	15	100
50.013 PAzzzz	PG13.5	6.0 - 12.0	9	100
50.013 zz(zz)15	PG13.5	6.0 - 12.0	15	100
50.016 PAzzzz	PG16	10.0 - 14.0	10	50
50.016 zz(zz)15	PG16	10.0 - 14.0	15	50
50.021 PAzzzz	PG21	13.0 - 18.0	11	50
50.021 zz(zz)15	PG21	13.0 - 18.0	15	50
50.029 PAzzzz*	PG29	18.0 - 25.0	11	25
50.029 zz(zz)15*	PG29	18.0 - 25.0	15	25
50.036 PAzzzz*	PG36	22.0 - 32.0	13	10
50.036 zz(zz)15*	PG36	22.0 - 32.0	18	10
50.042 PAzzzz*	PG42	30.0 - 38.0	13	5
50.048 PAzzzz*	PG48	34.0 - 44.0	14	5

* = Available with O-ring

4.3 Plastic cable glands & accessories - Pg

Plastic hexagonal locknuts - Pg



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : PG (DIN 40430)
 Temperature range : -40 °C up to +100 °C
 Available colors : Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ●
 Black (RAL 9005)= ●

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Art. no.	Connecting thread	Height (mm)	PU (pcs.)
207 PAZZZZ	PG7	5	100
209 PAZZZZ	PG9	5	100
211 PAZZZZ	PG11	5	100
213 PAZZZZ	PG13.5	6	100
216 PAZZZZ	PG16	6	100
221 PAZZZZ	PG21	7	100
229 PAZZZZ	PG29	7	100
236 PAZZZZ	PG36	8	50
242 PAZZZZ	PG42	8	50
248 PAZZZZ	PG48	8	50

Plastic screw plugs - Pg



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : PG (DIN 40430)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP54
 : IP66/IP68 possible when using an additional mounted sealing
 Available color : Light grey (RAL 7035)= ●

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread	Ø (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
1007 PA	PG7	15.0	6	10.0	100
1009 PA	PG9	19.0	6	10.0	100
1011 PA	PG11	22.0	6	10.0	100
1013 PA	PG13.5	25.0	6	10.0	100
1016 PA	PG16	27.0	6	10.0	100
1021 PA	PG21	33.0	8	12.5	100
1029 PA	PG29	44.5	8	13.0	100
1036 PA	PG36	55.5	10	15.0	50
1042 PA	PG42	62.5	10	15.5	50
1048 PA	PG48	69.5	12	17.0	50

Plastic enlargers - Pg



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Connecting thread : PG (DIN 40430)
 Temperature range : -30 °C up to +100 °C
 Protection grade : Dependent on the combination with other components
 Available color : Light grey (RAL 7035)= ●

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Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
709 PA	PG7 - PG9	8	21.0	100
911 PA	PG9 - PG11	8	23.0	100
1113 PA	PG11 - PG13.5	8	23.0	100
1116 PA	PG11 - PG16	8	26.0	100
1316 PA	PG13.5 - PG16	9	26.0	100
1621 PA	PG16 - PG21	9	29.0	100
2129 PA	PG21 - PG29	10	32.0	50
2936 PA	PG29 - PG36	11	35.5	25
3642 PA	PG36 - PG42	13	40.0	10
4248 PA	PG42 - PG48	13	41.0	10

Plastic reducers - Pg



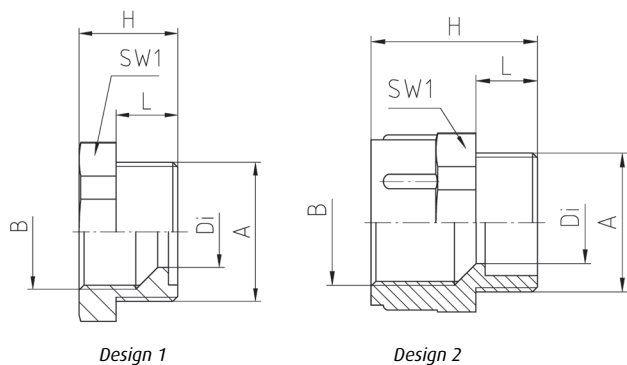
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Technical specifications

Brand	: Jacob
Material	: Polyamide PA6 GF30
Connecting thread	: PG (DIN 40430)
Temperature range	: -40 °C up to +100 °C
Protection grade	: Dependent on the combination with other components
Available colors	: Light grey (RAL 7035)= ● Black (RAL 9005)= ●

Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
907 PAzzzz*	PG9 - PG7	8	20.5	100
1107 PAzzzz	PG11 - PG7	8	14.0	100
1109 PAzzzz*	PG11 - PG9	8	22.5	100
1307 PA	PG13.5 - PG7	9	15.0	100
1309 PAzzzz	PG13.5 - PG9	9	15.0	100
1311 PAzzzz*	PG13.5 - PG11	9	24.0	100
1609 PAzzzz	PG16 - PG9	10	16.0	100
1611 PAzzzz	PG16 - PG11	10	16.0	100
1613 PAzzzz*	PG16 - PG13.5	10	27.0	100
2111 PAzzzz	PG21 - PG11	11	16.0	100
2113 PAzzzz	PG21 - PG13.5	11	16.0	100
2116 PAzzzz	PG21 - PG16	11	16.0	100
2913 PA	PG29 - PG13.5	11	17.0	50
2916 PAzzzz	PG29 - PG16	11	17.0	50
2921 PAzzzz	PG29 - PG21	11	17.0	50
3621 PA	PG36 - PG21	13	19.0	50
3629 PA	PG36 - PG29	18	24.0	50
4221 PA	PG42 - PG21	18	24.0	25
4229 PA	PG42 - PG29	18	24.0	25
4236 PA	PG42 - PG36	18	24.0	25
4829 PA	PG48 - PG29	18	24.0	25
4836 PA	PG48 - PG36	14	20.0	25
4842 PA	PG48 - PG42	17	23.0	25

* = Also available in design 2 (shown in right figure)



Brass EMC cable glands - Metric - IP68 or IP69K



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 - 5 bar / IP69K (tested for M12 - M25, M50, M63)
Approvals:	: UL, CSA, DNV



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Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
50.612 M/EMV	M12 x 1.5	3.0 - 6.0	5	100
50.612 M/EMV/L	M12 x 1.5	3.0 - 6.0	10	100
50.616 M/EMV*	M16 x 1.5	5.0 - 9.0	5	100
50.616 M/EMV/L*	M16 x 1.5	5.0 - 9.0	10	100
50.620 M/EMV*	M20 x 1.5	9.0 - 13.0	6	100
50.620 M/EMV/L*	M20 x 1.5	9.0 - 13.0	10	100
50.625 M/EMV*	M25 x 1.5	11.0 - 16.0	7	50
50.625 M/EMV/L*	M25 x 1.5	11.0 - 16.0	11	50
50.632 M/EMV*	M32 x 1.5	14.0 - 20.0	8	25
50.632 M/EMV/L*	M32 x 1.5	14.0 - 20.0	13	25
50.640 M/EMV*	M40 x 1.5	19.0 - 27.0	8	10
50.640 M/EMV/L*	M40 x 1.5	19.0 - 27.0	13	10
50.650 M/EMV*	M50 x 1.5	24.0 - 35.0	9	5
50.650 M/EMV/L	M50 x 1.5	24.0 - 35.0	14	5
50.663 M/EMV*	M63 x 1.5	32.0 - 42.0	10	5
50.663 M/EMV/L	M63 x 1.5	32.0 - 42.0	14	5
50.663 M1/EMV	M63 x 1.5	38.0 - 48.0	10	5
50.663 M1/EMV/L	M63 x 1.5	38.0 - 48.0	14	5

From M40 x 1.5 available with O-ring

*= Available in EMVD version

EMV version



EMVD version



4.4 Metal cable glands & accessories - Metric

PERFECT Brass cable glands - Metric - IP68 or IP69K



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 - 5 bar / IP69K (tested for M12 - M25, M50, M63)
Approvals:	: UL, CSA

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
50.612 M	M12 x 1.5	3.0 - 6.0	5	100
50.612 M-L	M12 x 1.5	3.0 - 6.0	10	100
50.616 M	M16 x 1.5	5.0 - 9.0	5	100
50.616 M-L	M16 x 1.5	5.0 - 9.0	10	100
50.620 M	M20 x 1.5	9.0 - 13.0	6	100
50.620 M-L	M20 x 1.5	9.0 - 13.0	10	100
50.625 M	M25 x 1.5	11.0 - 16.0	7	50
50.625 M-L	M25 x 1.5	11.0 - 16.0	11	50
50.632 M	M32 x 1.5	14.0 - 20.0	8	25
50.632 M-L	M32 x 1.5	14.0 - 20.0	13	25
50.640 M*	M40 x 1.5	19.0 - 27.0	8	10
50.640 M-L*	M40 x 1.5	19.0 - 27.0	13	10
50.650 M*	M50 x 1.5	24.0 - 35.0	9	5
50.650 M-L*	M50 x 1.5	24.0 - 35.0	14	5
50.663 M*	M63 x 1.5	32.0 - 42.0	10	5
50.663 M-L*	M63 x 1.5	32.0 - 42.0	14	5
50.663 M1*	M63 x 1.5	38.0 - 48.0	10	5
50.663 M1/L*	M63 x 1.5	38.0 - 48.0	14	5

* = Available with O-ring

PERFECT Brass Ex-cable glands - Metric - IP66 or IP68



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Group (zone)	: II 2G (1, 2), II 2D (21, 22)
Marking	: Ex e IIC Gb, Ex tb IIIC Db
Temperature range	: -40 °C up to +85 °C
Protection grade	: IP66 / IP68 - 10 bar (30 min.)
Test standard	: EN IEC 60079-0:2018, IEC 60079-0:2017
	: EN IEC 60079-7:2015+A1, IEC 60079-7:2017
	: EN 60079-31:2014, IEC 60079-31:2022
EU-type certificate	: BVS 17 ATEX E 118 X
IECEx certificate	: IECEx BVS 17.0101X

For other Ex-products, see pages 103, 112, 117 & 118

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Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
K100-1012-00-EX	M12 x 1.5	3.0 - 7.0	6.5	100
K100-1012-50-EX	M12 x 1.5	3.0 - 7.0	12	100
K100-1016-00-EX	M16 x 1.5	6.0 - 10.0	7	100
K100-1016-50-EX	M16 x 1.5	6.0 - 10.0	12	100
K100-1020-00-EX	M20 x 1.5	8.0 - 13.0	8	50
K100-1020-50-EX	M20 x 1.5	8.0 - 13.0	13	50
K100-1025-00-EX	M25 x 1.5	10.0 - 17.0	8	50
K100-1025-50-EX	M25 x 1.5	10.0 - 17.0	13	50
K100-1032-00-EX	M32 x 1.5	11.0 - 21.0	9	25
K100-1032-50-EX	M32 x 1.5	11.0 - 21.0	14	25
K100-1040-00-EX	M40 x 1.5	16.0 - 28.0	9	10
K100-1040-50-EX	M40 x 1.5	16.0 - 28.0	14	10
K100-1050-00-EX	M50 x 1.5	21.0 - 35.0	10	5
K100-1050-50-EX	M50 x 1.5	21.0 - 35.0	15	5
K100-1063-00-EX	M63 x 1.5	34.0 - 48.0	10	5
K100-1063-50-EX	M63 x 1.5	34.0 - 48.0	15	5

4.4 Metal cable glands & accessories - Metric

Brass EMC Ex-cable glands - Metric - IP66 or IP68



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Group (zone)	: II 2G (1, 2), II 2D (21, 22)
Marking	: Ex e IIC Gb, Ex tb IIIC Db
Temperature range	: -40 °C up to +85 °C
Protection grade	: IP66 / IP68 - 10 bar (30 min.)
Test standard	: EN IEC 60079-0:2018, IEC 60079-0:2017
	: EN IEC 60079-7:2015+A1, IEC 60079-7:2017
	: EN 60079-31:2014, IEC 60079-31:2022
EU-type certificate	: BVS 17 ATEX E 118 X
IECEx certificate	: IECEx BVS 17.0101X

For other Ex-products, see pages 103, 111, 117 & 118

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
K102-1012-00-EX	M12 x 1.5	3.0 - 7.0	6.5	100
K102-1012-50-EX	M12 x 1.5	3.0 - 7.0	12	100
K102-1016-00-EX	M16 x 1.5	6.0 - 10.0	7	100
K102-1016-50-EX	M16 x 1.5	6.0 - 10.0	12	100
K102-1020-00-EX	M20 x 1.5	8.0 - 13.0	8	50
K102-1020-50-EX	M20 x 1.5	8.0 - 13.0	13	50
K102-1025-00-EX	M25 x 1.5	10.0 - 17.0	8	50
K102-1025-50-EX	M25 x 1.5	10.0 - 17.0	13	50
K102-1032-00-EX	M32 x 1.5	11.0 - 21.0	9	25
K102-1032-50-EX	M32 x 1.5	11.0 - 21.0	14	25
K102-1040-00-EX	M40 x 1.5	16.0 - 28.0	9	10
K102-1040-50-EX	M40 x 1.5	16.0 - 28.0	14	10
K102-1050-00-EX	M50 x 1.5	21.0 - 35.0	10	5
K102-1050-50-EX	M50 x 1.5	21.0 - 35.0	15	5
K102-1063-00-EX	M63 x 1.5	34.0 - 48.0	10	5
K102-1063-50-EX	M63 x 1.5	34.0 - 48.0	15	5

Brass hexagonal locknuts - Metric



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Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -60 °C up to +200 °C

Art. no.	Connecting thread	Height (mm)	PU (pcs.)
50.212 M	M12 x 1.5	2.8	100
50.216 M	M16 x 1.5	2.8	100
50.220 M	M20 x 1.5	3.0	100
50.225 M	M25 x 1.5	3.5	100
50.232 M	M32 x 1.5	4.0	100
50.240 M	M40 x 1.5	5.0	50
50.250 M	M50 x 1.5	5.0	50
50.263 M	M63 x 1.5	6.0	50
50.272 M	M72 x 2.0	8.0	10
50.275 M	M75 x 1.5	8.0	5
50.280 M	M80 x 2.0	8.0	5
50.285 M	M85 x 2.0	8.0	5
50.290 M	M90 x 2.0	8.0	5
50.2100 M	M100 x 3.0	11.0	5
50.2110 M	M110 x 3.0	11.0	5

4.4 Metal cable glands & accessories - Metric

Brass screw plugs - Metric

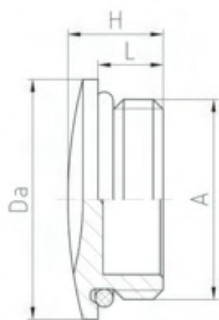


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Technical specifications

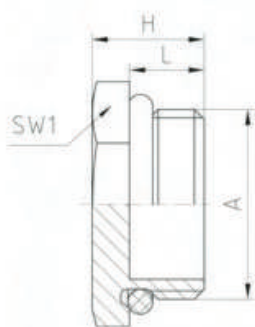
Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -60 °C up to +200 °C
 Protection grade : IP65

Art. no.	Connecting thread	Ø Da (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
10.1210	M12 x 1.0	16	4.5	7.5	100
10.1215	M12 x 1.5	16	5	8	100
10.1615	M16 x 1.5	20	6	9	100
10.2015	M20 x 1.5	24	6.5	9.5	100
10.2515	M25 x 1.5	28	7	11	100
10.3215	M32 x 1.5	35	8	12	50
10.4015	M40 x 1.5	45	8	12	50
10.5015	M50 x 1.5	55	9	15	25
10.6315	M63 x 1.5	68	10	16	10



Round

Art. no.	Connecting thread	SW1 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
10.61215	M12 x 1.5	14	5	7.5	100
10.61615	M16 x 1.5	18	5	8	100
10.62015	M20 x 1.5	22	6	9	100
10.62515	M25 x 1.5	28	6.5	10	100
10.63215	M32 x 1.5	35	7	10.5	50
10.64015	M40 x 1.5	44	8	12	50



Hexagon

Brass screw plugs - Metric - With O-ring

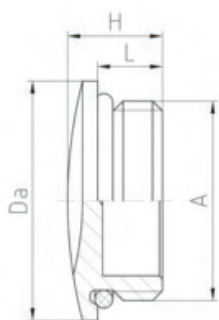


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Technical specifications

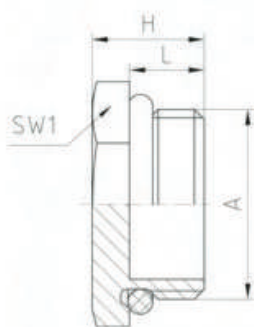
Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP66/IP68 - 5 bar
 Approvals : UL, CSA

Art. no.	Connecting thread	Ø Da (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
10.1210 M/G	M12 x 1.0	16	4.5	7.5	100
10.1215 M/G	M12 x 1.5	16	5	8	100
10.1615 M/G	M16 x 1.5	20	6	9	100
10.2015 M/G	M20 x 1.5	24	6.5	9.5	100
10.2515 M/G	M25 x 1.5	28	7	11	100
10.3215 M/G	M32 x 1.5	35	8	12	50
10.4015 M/G	M40 x 1.5	45	8	12	50
10.5015 M/G	M50 x 1.5	55	9	15	25
10.6315 M/G	M63 x 1.5	68	10	16	10



Round

Art. no.	Connecting thread	SW1 (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
10.61215 M/G	M12 x 1.5	14	5	7.5	100
10.61615 M/G	M16 x 1.5	18	5	8	100
10.62015 M/G	M20 x 1.5	22	6	9	100
10.62515 M/G	M25 x 1.5	28	6.5	10	100
10.63215 M/G	M32 x 1.5	35	7	10.5	50
10.64015 M/G	M40 x 1.5	44	8	12	50



Hexagon

4.4 Metal cable glands & accessories - Metric

Brass enlargers - Metric



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Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Temperature range	: -60 °C up to +200 °C
Protection grade	: Dependent on the combination with other components

Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
M12M16/FR	M12 x 1.5 - M16 x 1.5	5	16	100
M16M20/FR	M16 x 1.5 - M20 x 1.5	5	16.5	100
M20M25/FR	M20 x 1.5 - M25 x 1.5	6	18.5	50
M25M32/FR	M25 x 1.5 - M32 x 1.5	7	20.5	25
M32M40/FR	M32 x 1.5 - M40 x 1.5	8	23.5	25
M40M50/FR	M40 x 1.5 - M50 x 1.5	8	30	10
M50M63/FR	M50 x 1.5 - M63 x 1.5	9	32.5	10

Brass reducers - Metric



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Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Temperature range	: -60 °C up to +200 °C
Protection grade	: Dependent on the combination with other components

Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
M16M12	M16 x 1.5 - M12 x 1.5	6	8.5	100
M20M12	M20 x 1.5 - M12 x 1.5	6.5	9	100
M20M16	M20 x 1.5 - M16 x 1.5	6.5	9	100
M25M16	M25 x 1.5 - M16 x 1.5	7	10	100
M25M20	M25 x 1.5 - M20 x 1.5	7	10	100
M32M20	M32 x 1.5 - M20 x 1.5	8	11.5	50
M32M25	M32 x 1.5 - M25 x 1.5	8	11.5	50
M40M25	M40 x 1.5 - M25 x 1.5	9	12.5	25
M40M32	M40 x 1.5 - M32 x 1.5	9	12.5	25
M50M32	M50 x 1.5 - M32 x 1.5	10	14	10
M50M40	M50 x 1.5 - M40 x 1.5	10	14	10
M63M40	M63 x 1.5 - M40 x 1.5	10	14	10
M63M50	M63 x 1.5 - M50 x 1.5	10	14	10

Brass hexagonal Ex-locknuts - Metric



Technical specifications

Brand : Jacob
 Material : Brass CuZn21Si3P, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -60 °C up to +200 °C

For other Ex-products, see pages 103, 111, 112 & 118

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Art. no.	Connecting thread	Height (mm)	PU (pcs.)
50.212 YPOT	M12 x 1.5	3.5	100
50.216 YPOT	M16 x 1.5	3.5	100
50.220 YPOT	M20 x 1.5	3.7	100
50.225 YPOT	M25 x 1.5	4.2	100
50.232 YPOT	M32 x 1.5	4.7	100
50.240 YPOT	M40 x 1.5	5.7	50
50.250 YPOT	M50 x 1.5	5.7	50
50.263 YPOT	M63 x 1.5	6.7	50

Brass Ex-screw plugs - Metric



Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Group (zone) : II 2G (1, 2), II 2D (21, 22)
 Marking : Ex e IIC Gb, Ex tb IIIC Db
 Temperature range : -40 °C up to +85 °C
 Protection grade : IP66 / IP68 - 10 bar (30 min.)
 Test standard : EN IEC 60079-0:2018, IEC 60079-0:2017
 : EN 60079-31:2014, IEC 60079-31:2013
 : EN IEC 60079-7:2015+A1, IEC 60079-7:2017
 EU-type certificate : PTB 16 ATEX 1006
 IECEx certificate : IECEx PTB 16.0017

For other Ex-products, see pages 103, 111, 112 & 118

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Art. no.	Connecting thread	Ø Da (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
V102-1012-03-EX	M12 x 1.5	16	5	8	100
V102-1016-03-EX	M16 x 1.5	20	6	9	100
V102-1020-03-EX	M20 x 1.5	24	6.5	9.5	100
V102-1025-03-EX	M25 x 1.5	28	7	11	100
V102-1032-03-EX	M32 x 1.5	35	8	12	50
V102-1040-03-EX	M40 x 1.5	45	8	12	50
V102-1050-03-EX	M50 x 1.5	55	9	15	25
V102-1063-03-EX	M63 x 1.5	68	10	16	10

Brass Ex-enlargers - Metric



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Group (zone)	: II 2G (1, 2), II 2D (21, 22)
Marking	: Ex e IIC Gb, Ex tb IIIC Db
Temperature range	: -40 °C up to +85 °C
Protection grade	: IP66 / IP68 - 10 bar (30 min.)
Test standard	: EN IEC 60079-0:2018, IEC 60079-0:2017 : EN 60079-31:2014, IEC 60079-31:2013 : EN IEC 60079-7:2015+A1, IEC 60079-7:2017
EU-type certificate	: PTB 16 ATEX 1006
IECEx certificate	: IECEx PTB 16.0017

For other Ex-products, see pages 103, 111, 112 & 117

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Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
E102-11216-03-EX	M12 x 1.5 - M16 x 1.5	5	16	100
E102-11620-03-EX	M16 x 1.5 - M20 x 1.5	5	16.5	100
E102-12025-03-EX	M20 x 1.5 - M25 x 1.5	6	18.5	50
E102-12532-03-EX	M25 x 1.5 - M32 x 1.5	7	20.5	25
E102-13240-03-EX	M32 x 1.5 - M40 x 1.5	8	23.5	25
E102-14050-03-EX	M40 x 1.5 - M50 x 1.5	8	30	10
E102-15063-03-EX	M50 x 1.5 - M63 x 1.5	9	32.5	10

Brass Ex-reducers - Metric



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: Metric (EN 60423)
Group (zone)	: II 2G (1, 2), II 2D (21, 22)
Marking	: Ex e IIC Gb, Ex tb IIIC Db
Temperature range	: -40 °C up to +85 °C
Protection grade	: IP66 / IP68 - 10 bar (30 min.)
Test standard	: EN IEC 60079-0:2018 / IEC 60079-0:2017 : EN IEC 60079-7:2015+A1, IEC 60079-7:2015+A1 : EN 60079-31:2014, IEC 60079-31:2013
EU-type certificate	: PTB 16 ATEX 1006
IECEx certificate	: IECEx PTB 16.0017

For other Ex-products, see pages 103, 111, 112 & 117

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Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
R102-11612-03-EX	M16 x 1.5 - M12 x 1.5	5	8	100
R102-12012-03-EX	M20 x 1.5 - M12 x 1.5	6	9	100
R102-12016-03-EX	M20 x 1.5 - M16 x 1.5	6	9	100
R102-12516-03-EX	M25 x 1.5 - M16 x 1.5	7	10	100
R102-12520-03-EX	M25 x 1.5 - M20 x 1.5	7	10	100
R102-13220-03-EX	M32 x 1.5 - M20 x 1.5	8	11	50
R102-13225-03-EX	M32 x 1.5 - M25 x 1.5	8	11	50
R102-14025-03-EX	M40 x 1.5 - M25 x 1.5	8	12	25
R102-14032-03-EX	M40 x 1.5 - M32 x 1.5	8	12	25
R102-15032-03-EX	M50 x 1.5 - M32 x 1.5	9	13	10
R102-15040-03-EX	M50 x 1.5 - M40 x 1.5	9	13	10
R102-16350-03-EX	M63 x 1.5 - M50 x 1.5	10	14	10

Stainless steel cable glands - Metric - IP68 or IP69K



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Stainless steel 1.4305
 Connecting thread : Metric (EN 60423)
 Temperature range : -20 °C up to +100 °C
 Protection grade : IP68 / IP69K (tested for M12 - M25, M50, M63)
 Approvals : UL, CSA, DNV

Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
50.612 ES	M12 x 1.5	3.0 - 6.0	5	50
50.616 ES	M16 x 1.5	5.0 - 9.0	5	50
50.620 ES	M20 x 1.5	9.0 - 13.0	6	50
50.625 ES	M25 x 1.5	11.0 - 16.0	7	50
50.632 ES	M32 x 1.5	14.0 - 20.0	8	25
50.640 ES*	M40 x 1.5	19.0 - 27.0	8	10
50.650 ES*	M50 x 1.5	24.0 - 35.0	9	5
50.663 ES*	M63 x 1.5	32.0 - 42.0	10	5

* = Available with O-ring

Stainless steel hexagonal locknuts - Metric



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Technical specifications

Brand : Jacob
 Material : Stainless steel 1.4305
 Connecting thread : Metric (EN 60423)
 Temperature range : -60 °C up to +200 °C

Art. no.	Connecting thread	Height (mm)	PU (pcs.)
50.212 ES	M12 x 1.5	2.8	50
50.216 ES	M16 x 1.5	2.8	50
50.220 ES	M20 x 1.5	3	50
50.225 ES	M25 x 1.5	3.5	50
50.232 ES	M32 x 1.5	4	25
50.240 ES	M40 x 1.5	5	10
50.250 ES	M50 x 1.5	5	5
50.263 ES	M63 x 1.5	6	5

4.4 Metal cable glands & accessories - Metric

Brass AirVent cable glands - Metric



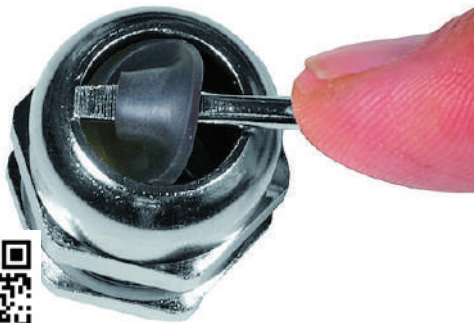
Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -20 °C up to +100 °C
 Protection grade : IP66 / IP68
 Water entry pressure : > 0.3 bar (for the membrane)

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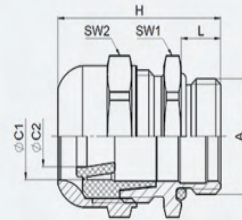
Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	Height (mm)	RQ [*] l/h	PU (pcs.)
50.620 M/R/AV	M20 x 1.5	5 - 13	6	33.5	ca. 85	5
50.620 M/AV	M20 x 1.5	9 - 13	6	33.5	ca. 85	5
50.625 M/AV	M25 x 1.5	11 - 16	7	36.5	ca. 85	5

* RQ = theoretical air flow through usable surface at p = 0.07 bar



Technical specifications

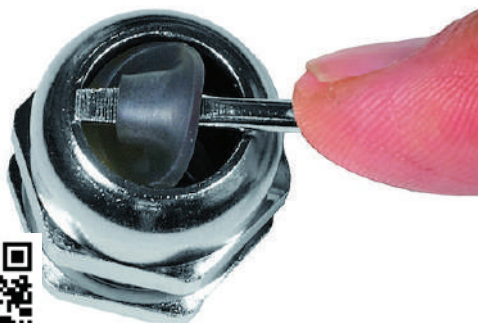
Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP66 / IP68 up to 15 bar (30 min.) / IP69
 Approvals : UL, DNV, VDE



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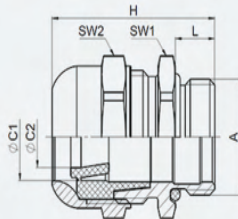
Art. no.	Connecting thread A	ØC (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K-150-1012-00	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	100
K-150-1016-00	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	100
K-150-1020-00	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K-150-1025-00	M25 x 1.5	12.5 - 20.5	12.5 - 15.5	15.5 - 20.5	8	35.5	50
K-150-1032-00	M32 x 1.5	17 - 25.5	17 - 20.5	20.5 - 25.5	9	40.5	25
K-150-1040-00	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K-150-1050-00	M50 x 1.5	31 - 42	31 - 37.5	37.5 - 42	10	47.5	5
K-150-1063-00	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5

Brass WADI one cable glands - Metric - Lead-free



Technical specifications

Brand : Jacob
 Material : Brass lead-free CuZn21Si3P, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP66 / IP68 up to 15 bar (30 min.) / IP69
 Approvals : UL, DNV, VDE



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Art. no.	Connecting thread A	ØC (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K450-1012-00	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	100
K450-1016-00	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	100
K450-1020-00	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K450-1025-00	M25 x 1.5	12.5 - 20.5	12.5 - 15.5	15.5 - 20.5	8	35.5	50
K450-1032-00	M32 x 1.5	17 - 25.5	17 - 20.5	20.5 - 25.5	9	40.5	25
K450-1040-00	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K450-1050-00	M50 x 1.5	31 - 42	31 - 37.5	37.5 - 42	10	47.5	5
K450-1063-00	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5



4.4 Metal cable glands & accessories - Metric

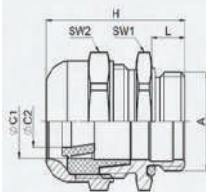
Brass WADI one cable glands - Metric - With dust cap



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : With cable; IP66 / IP68 up to 15 bar(30 min.) / IP69
 : With dust cap; IP66, IP67
 Approvals : UL, DNV, VDE



Art. no.	Connecting thread A	ØC (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K150-1012-05	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	100
K150-1016-05	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	100
K150-1020-05	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K150-1025-05	M25 x 1.5	12.5 - 20.5	12.5 - 15.5	15.5 - 20.5	8	35.5	50
K150-1032-05	M32 x 1.5	17 - 25.5	17 - 20.5	20.5 - 25.5	9	40.5	25
K150-1040-05	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K150-1050-05	M50 x 1.5	31 - 42	31 - 37.5	37.5 - 42	10	47.5	5
K150-1063-05	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5

Brass WADI one cable glands - Metric - With sealing insert



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Sealing insert : TPE TPS
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP68 up to 10 bar (30 min.) / IP69
 Approvals : UL

Art. no.	Connecting thread	Number of holes	Cable diameter (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
K152-1016-00-24	M16 x 1.5	2	2 - 4	7	31.5	50
K152-1020-00-26	M20 x 1.5	2	4 - 6	8	33	50
K152-1020-00-45	M20 x 1.5	4	3 - 5	8	33	50
K152-1025-00-28	M25 x 1.5	2	6 - 8	8	35.5	50
K152-1025-00-37	M25 x 1.5	3	5 - 7	8	35.5	50
K152-1032-00-48	M32 x 1.5	4	6 - 8	9	40.5	25
K152-1032-00-67	M32 x 1.5	6	5 - 7	9	40.5	25

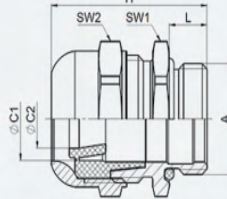
Brass WADI one cable glands - Metric - Heat resistant



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Sealing insert : Fluorine rubber FKM
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +200 °C
 Protection grade : IP66 / IP67 / IP69
 Approvals : UL



Art. no.	Connecting thread A	ØC (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K155-1012-00	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	100
K155-1016-00	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	100
K155-1020-00	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K155-1025-00	M25 x 1.5	14 - 20.5	14 - 15.5	15.5 - 20.5	8	35.5	50
K155-1032-00	M32 x 1.5	18 - 25.5	18 - 20.5	20.5 - 25.5	9	40.5	25
K155-1040-00	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K155-1050-00	M50 x 1.5	32 - 42	32 - 37.5	37.5 - 42	10	47.5	5
K155-1063-00	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5

4.4 Metal cable glands & accessories - Metric

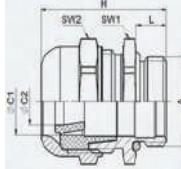
Stainless steel WADI one cable glands - Metric



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Stainless steel 1.4404 / AISI 316L
 Sealing insert : TPE TPS
 O-ring : Nitrile rubber NBR
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP66 / IP68 up to 15 bar (30 min.) / IP69
 Approvals : UL, VDE, DNV



Art. no.	Connecting thread A	ØC (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K252-1012-00	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	50
K252-1016-00	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	50
K252-1020-00	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K252-1025-00	M25 x 1.5	12.5 - 20.5	12.5 - 15.5	15.5 - 20.5	8	35.5	50
K252-1032-00	M32 x 1.5	17 - 25.5	17 - 20.5	20.5 - 25.5	9	40.5	25
K252-1040-00	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K252-1050-00	M50 x 1.5	31 - 42	31 - 37.5	37.5 - 42	10	47.5	5
K252-1063-00	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5

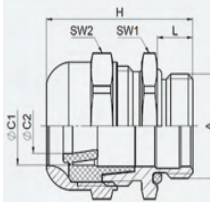
Stainless steel WADI one cable glands - Metric - Heat resistant



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Stainless steel 1.4404 / AISI 316L
 Sealing insert / O-ring : Fluorine rubber FKM
 Connecting thread : Metric (EN 60423)
 Temperature range : -40 °C up to +200 °C
 Protection grade : IP66 / IP67 / IP69
 Approvals : UL



Art. no.	Connecting thread A	ØC (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K257-1012-00	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	100
K257-1016-00	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	100
K257-1020-00	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K257-1025-00	M25 x 1.5	14 - 20.5	14 - 15.5	15.5 - 20.5	8	35.5	50
K257-1032-00	M32 x 1.5	18 - 25.5	18 - 20.5	20.5 - 25.5	9	40.5	25
K257-1040-00	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K257-1050-00	M50 x 1.5	32 - 42	32 - 37.5	37.5 - 42	10	47.5	5
K257-1063-00	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5

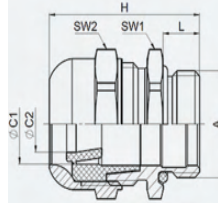
Brass WADI rail cable glands - Metric



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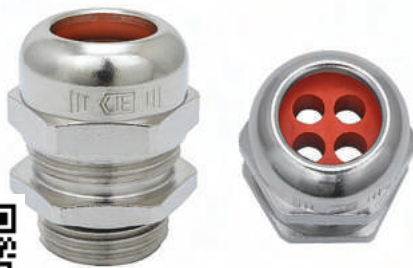
Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Sealing insert / O-ring : TPE TPS
 Connecting thread : Metric (EN 60423)
 Temperature range : -60 °C up to +100 °C
 Protection grade : IP66 / IP67 / IP69
 Approvals : UL



Art. no.	Connecting thread A	Ø C (mm)	Ø C1 (mm)	Ø C2 (mm)	Thread length L (mm)	Height H (mm)	PU (pcs.)
K160-1012-00	M12 x 1.5	3 - 8	3 - 5	5 - 8	6.5	25.5	100
K160-1016-00	M16 x 1.5	5 - 10.5	5 - 7.5	7.5 - 10.5	7	31.5	100
K160-1020-00	M20 x 1.5	8 - 15	8 - 10.5	10.5 - 15	8	33	50
K160-1025-00	M25 x 1.5	12.5 - 20.5	12.5 - 15.5	15.5 - 20.5	8	35.5	50
K160-1032-00	M32 x 1.5	17 - 25.5	17 - 20.5	20.5 - 25.5	9	40.5	25
K160-1040-00	M40 x 1.5	24 - 33	24 - 29	29 - 33	9	43	10
K160-1050-00	M50 x 1.5	31 - 42	31 - 37.5	37.5 - 42	10	47.5	5
K160-1063-00	M63 x 1.5	40 - 53	40 - 46	46 - 53	10	53	5

Brass WADI rail cable glands - Metric - With sealing insert



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Sealing insert / O-ring : TPE TPS
 Connecting thread : Metric (EN 60423)
 Temperature range : -60 °C up to +100 °C
 Protection grade : IP68 up to 10 bar (30 min.) / IP69
 Approvals : UL

Art. no.	Connecting thread	Number of holes	Cable diameter (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
K162-1016-00-24	M16 x 1.5	2	2 - 4	7	31.5	50
K162-1020-00-26	M20 x 1.5	2	4 - 6	8	33	50
K162-1020-00-45	M20 x 1.5	4	3 - 5	8	33	50
K162-1025-00-28	M25 x 1.5	2	6 - 8	8	35.5	50
K162-1025-00-37	M25 x 1.5	3	5 - 7	8	35.5	50
K162-1032-00-48	M32 x 1.5	4	6 - 8	9	40.5	25
K162-1032-00-67	M32 x 1.5	6	5 - 7	9	40.5	25

4.4 Metal cable glands & accessories - Metric

PERFECT Brass cable glands - Metric - IP68 or IP69K - Lead free



Technical specifications

Brand	: Jacob
Material	: Brass lead-free CuZn21Si3P, nickel-plated
Lamellar insert	: Polyamide PA6 V-2
Sealing ring	: Polychloroprene-Nitrile rubber CR/NBR
O-ring	: Nitrile rubber NBR
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 - 5 bar / IP69K (tested for M12 - M25, M50, M63)
Approvals	: UL, CSA, DNV

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Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
50.612 Y	M12 x 1.5	3.0 - 6.0	5	25	100
50.612 Y-L	M12 x 1.5	3.0 - 6.0	10	30	100
50.616 Y	M16 x 1.5	5.0 - 9.0	5	29	100
50.616 Y-L	M16 x 1.5	5.0 - 9.0	10	34	100
50.620 Y	M20 x 1.5	9.0 - 13.0	6	33	100
50.620 Y-L	M20 x 1.5	9.0 - 13.0	10	37	100
50.625 Y	M25 x 1.5	11.0 - 16.0	7	35	50
50.625 Y-L	M25 x 1.5	11.0 - 16.0	11	39	50
50.632 Y	M32 x 1.5	14.0 - 20.0	8	42	25
50.632 Y-L	M32 x 1.5	14.0 - 20.0	13	47	25
50.640 Y	M40 x 1.5	19.0 - 27.0	8	42	10
50.640 Y-L	M40 x 1.5	19.0 - 27.0	13	47	10
50.650 Y	M50 x 1.5	24.0 - 35.0	9	50	5
50.650 Y-L	M50 x 1.5	24.0 - 35.0	14	55	5
50.663 Y	M63 x 1.5	32.0 - 42.0	10	52.5	5
50.663 Y-L	M63 x 1.5	32.0 - 42.0	14	56.5	5
50.663 Y1	M63 x 1.5	38.0 - 48.0	10	52.5	5
50.663 Y1-L	M63 x 1.5	38.0 - 48.0	14	56.5	5

PERFECT Brass cable glands - Metric - IP68 or IP69K - Inner sealing part - Lead free



Technical specifications

Brand	: Jacob
Material	: Brass lead-free CuZn21Si3P, nickel-plated
Lamellar insert	: Polyamide PA6 V-2
Sealing ring outer part	: Polychloroprene-Nitrile rubber CR/NBR
Sealing ring inner part	: TPE TPS
O-ring	: Nitrile rubber NBR
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 - 5 bar / IP69K (tested for M12 - M25, M50, M63)
Approvals	: UL, CSA, DNV

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Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
50.612 Y/R	M12 x 1.5	2.0 - 5.0	5	25	100
50.616 Y/R	M16 x 1.5	3.0 - 9.0	5	29	100
50.620 Y/R	M20 x 1.5	5.0 - 13.0	6	33	100
50.625 Y/R	M25 x 1.5	8.0 - 16.0	7	35	50
50.632 Y/R	M32 x 1.5	12.0 - 20.0	8	42	25
50.640 Y/R	M40 x 1.5	16.0 - 27.0	8	42	10
50.650 Y/R	M50 x 1.5	21.0 - 35.0	9	50	5
50.663 Y/R	M63 x 1.5	27.0 - 48.0	10	52.5	5

Brass cable glands - Pg - IP68



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: PG (DIN 40430)
Temperature range	: -20 °C up to +100 °C
Protection grade	: IP68 - 5 bar

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Art. no.	Connecting thread	Cable diameter (mm)	Thread length (mm)	PU (pcs.)
50.007	PG7	3.0 - 6.5	5	100
50.007-15MM	PG7	3.0 - 6.5	15	100
50.009	PG9	4.0 - 8.0	6	100
50.009-15MM	PG9	4.0 - 8.0	15	100
50.011	PG11	5.0 - 10.0	6	50
50.011-15MM	PG11	5.0 - 10.0	15	50
50.013	PG13.5	6.0 - 12.0	6.5	50
50.013-15MM	PG13.5	6.0 - 12.0	15	50
50.016	PG16	10.0 - 14.0	6.5	50
50.016-15MM	PG16	10.0 - 14.0	15	50
50.021	PG21	13.0 - 18.0	7	50
50.021-15MM	PG21	13.0 - 18.0	15	50
50.029	PG29	18.0 - 25.0	8	25
50.029-15MM	PG29	18.0 - 25.0	15	25
50.036*	PG36	24.0 - 32.0	9	10
50.042*	PG42	30.0 - 38.0	10	5
50.048*	PG48	34.0 - 44.0	10	5

* = Available with O-ring

Brass locknuts - Pg



Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : PG (DIN 40430)
 Temperature range : -60 °C up to +200 °C

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Art. no.	Connecting thread	Height (mm)	PU (pcs.)
207 M	PG7	2.8	100
209 M	PG9	2.8	100
211 M	PG11	3	100
213 M	PG13.5	3	100
216 M	PG16	3	100
221 M	PG21	3.5	100
229 M	PG29	4	100
236 M	PG36	5	50
242 M	PG42	5	50
248 M	PG48	5.5	50

Brass screw plugs - Pg



Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : PG (DIN 40430)
 Temperature range : -60 °C up to +200 °C
 Protection grade : IP65

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Art. no.	Connecting thread	Ø (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
1007 M	PG7	14	5	8	100
1009 M	PG9	17	6	9	100
1011 M	PG11	20	6	9	100
1013 M	PG13.5	22	6.5	9.5	100
1016 M	PG16	24	6.5	9.5	100
1021 M	PG21	30	7	11	100
1029 M	PG29	39	8	12	50
1036 M	PG36	50	9	15	25
1042 M	PG42	57	10	16	25
1048 M	PG48	64	10	16	10

Brass screw plugs - Pg - With O-ring



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Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : PG (DIN 40430)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP66/IP68 - 5 bar

Art. no.	Connecting thread	Ø (mm)	Thread length (mm)	Height (mm)	PU (pcs.)
1007 M/G	Pg 7	16	4.5	7	100
1009 M/G	Pg 9	19	4.5	8	100
1011 M/G	Pg 11	22	4.5	8	100
1013 M/G	Pg 13.5	24	6	10	100
1016 M/G	Pg 16	26	6	10	100
1021 M/G	Pg 21	32	6.5	10	100
1029 M/G	Pg 29	39	8	12	50
1036 M/G	Pg 36	50	9	15	25
1042 M/G	Pg 42	57	10	16	25
1048 M/G	Pg 48	64	10	16	10

Brass enlargers - Pg



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Brass CuZn39Pb3, nickel-plated
 Connecting thread : PG (DIN 40430)
 Temperature range : -60 °C up to +200 °C
 Protection grade : Dependent on the combination with other components

Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
709	PG7 - PG9	5	15	100
911	PG9 - PG11	6	16.5	100
913	PG9 - PG13.5	6	17.5	100
1113	PG11 - PG13.5	6	17.5	100
1116	PG11 - PG16	6.5	19	100
1121	PG11 - PG21	6.5	21	100
1316	PG13.5 - PG16	6.5	19	100
1321	PG13.5 - PG21	6.5	21	100
1621	PG16 - PG21	6.5	21	100
1629	PG16 - PG29	6.5	22.5	50
2129	PG21 - PG29	7	23	50
2936	PG29 - PG36	8	27.5	25
3642	PG36 - PG42	9	31	10
4248	PG42 - PG48	10	33	10

Brass reducers - Pg



Technical specifications

Brand	: Jacob
Material	: Brass CuZn39Pb3, nickel-plated
Connecting thread	: PG (DIN 40430)
Temperature range	: -60 °C up to +200 °C
Protection grade	: Dependent on the combination with other components

Scan this QR code for article numbers, current prices and stock information and to order directly.

Art. no.	Connecting thread from - to	Thread length (mm)	Height (mm)	PU (pcs.)
907	PG9 - PG7	6	8.5	100
1107	PG11 - PG7	6	8.5	100
1109	PG11 - PG9	6	8.5	100
1307	PG13.5 - PG7	6.5	9	100
1309	PG13.5 - PG9	6.5	9	100
1311	PG13.5 - PG11	6.5	9	100
1607	PG16 - PG7	6.5	9.5	100
1609	PG16 - PG9	6.5	9.5	100
1611	PG16 - PG11	6.5	9.5	100
1613	PG16 - PG13.5	6.5	9.5	100
2111	PG21 - PG11	7	10	100
2113	PG21 - PG13.5	7	10	100
2116	PG21 - PG16	7	10	100
2916	PG29 - PG16	8	11.5	50
2921	PG29 - PG21	8	11.5	50
3621	PG36 - PG21	9	12.5	25
3629	PG36 - PG29	9	12.5	25
4229	PG42 - PG29	10	14	10
4236	PG42 - PG36	10	14	10
4836	PG48 - PG36	10	14	10
4842	PG48 - PG42	10	14	10

4.6 Venting elements & Blanking plugs

Plastic venting elements - Metric



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 V-0 (for high demands concerning fire safety)
 Connecting thread : Metric (EN 60423)
 Water entry pressure : $\geq 0,83$ bar (dynamic WEP, 30 seconds)
 Temperature range : -40 °C up to +100 °C
 Protection grade : IP66 / IP68 - 0.6 bar (60 min.) / IP69
 Available colors : Light grey (RAL 7035)= ● Black (RAL 9005)= ●

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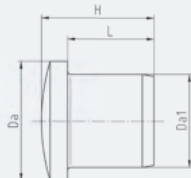
Art. no.	Connecting thread	Thread length (mm)	Height (mm)	PU (pcs.)
JDAE12PAzzzz	M12 x 1.5	10.0	17.8	100
JDAE20PAzzzz	M20 x 1.5	10.0	21.6	10
JDAE40PAzzzz	M40 x 1.5	18.0	35.6	5
JDAE12PA06zzzz	M12 x 1.5	6.0	13.8	100

Blanking plugs - Metric



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF30
 Temperature range : -40 °C up to +100 °C
 Comment : Choose the corresponding blanking plug so, that Da1 is at most 1 mm smaller than \emptyset Cmax.
 Properties : Single part for use in combination with PERFECT cable gland
 Available colors : Light grey (RAL 7035)= ● Black (RAL 9005)= ●



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Art. no.	Size	Length (mm)	Height (mm)	Da (mm)	Da1 (mm)	PU (pcs.)
WJ-DM 12-VPAzzzz*	M12	9	12.5	10	5.5	50
WJ-DM 16-VPAzzzz*	M16	12	16	13.5	9.5	50
WJ-DM 16-1-VPA	M16	14	18	13.5	9	50
WJ-DM 20-VPAzzzz*	M20	12	16.5	16.5	12	50
WJ-DM 25-VPAzzzz*	M25	15	19.5	20.5	16	50
WJ-DM 32-VPA	M32	17	21.5	24.5	20	25
WJ-DM 40-VPA	M40	20	24	32	27	10
WJ-DM 50-VPA	M50	25	29	39	35	5
WJ-DM 63-VPA	M63	25	29	52	42	5

* = Available in Black (RAL 9005)= ●

Sealing inserts - Metric



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : TPE TPS
 Temperature range : -30 °C up to +100 °C
 Properties : Sealing insert for the installation of several single cables

Art. no.	Size	Number of holes x hole diameter (mm)	Height (mm)	Diameter of sealing insert (mm)	PU (pcs.)
WJ-DM 12/2X1.6	M12	2 x 1.6	6.6	8.5	50
WJ-DM 12/3X2.3	M12	3 x 2.3	6.6	8.5	50
WJ-DM 12/4X2	M12	4 x 2	6.6	8.5	50
WJ-DM 16/2X4	M16	2 x 4	7.6	11.7	50
WJ-DM 16/2X4.5	M16	2 x 4.5	7.6	11.7	50
WJ-DM 16/4X2.3	M16	4 x 2.3	7.6	11.7	50
WJ-DM 16/4X3.5	M16	4 x 3.5	7.6	11.7	50
WJ-DM 20/2X4	M20	2 x 4	7.5	15.1	50
WJ-DM 20/2X6	M20	2 x 6	7.5	15.1	50
WJ-DM 20/4X5	M20	4 x 5	7.5	15.1	50
WJ-DM 25/2X6	M25	2 x 6	9.3	19.8	50
WJ-DM 25/2X8	M25	2 x 8	9.3	19.8	50
WJ-DM 25/3X4	M25	3 x 4	9.3	19.8	50
WJ-DM 25/3X6	M25	3 x 6	9.3	19.8	50
WJ-DM 25/3X7	M25	3 x 7	9.3	19.8	50
WJ-DM 25/4X5	M25	4 x 5	9.3	19.8	50
WJ-DM 25/4X6	M25	4 x 6	9.3	19.8	50
WJ-DM 25/4X6.5	M25	4x6.5	9.3	19.8	50
WJ-DM 25/5X4	M25	5 x 4	9.3	19.8	50
WJ-DM 25/6X4	M25	6 x 4	9.3	19.8	50
WJ-DM 32/2X8	M32	2 x 8	12.5	25.1	25
WJ-DM 32/3X8	M32	3 x 8	12.5	25.1	25
WJ-DM 32/4X7	M32	4 x 7	12.5	25.1	25
WJ-DM 32/4X8	M32	4 x 8	12.5	25.1	25
WJ-DM 32/4X8.5	M32	4 x 8.5	12.5	25.1	25
WJ-DM 32/6X4	M32	6 x 4	12.5	25.1	25
WJ-DM 32/6X6	M32	6 x 6	12.5	25.1	25
WJ-DM 40/4X10	M40	4 x 10	15	32.3	10
WJ-DM 40/5X8.5	M40	5 x 8.5	15	32.3	10
WJ-DM 40/8X6.5	M40	8 x 6.5	15	32.3	10

4.8 Sealing grommets

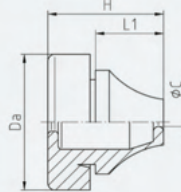
Sealing grommets - Metric



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Ethylene-Propylene rubber EPDM
 Temperature range : -40 °C up to +110 °C
 Protection grade : IP67
 Available colors : Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ●
 Black (RAL 9005)= ●



Art. no.	Size	Ø Hole (mm)	Wall thickness T (mm)	Cable Ø C (mm)	L1 (mm)	Height (mm)	Da (mm)	PU (pcs.)
G502-1012-zz	M12	12.5	0.5 - 2	4 - 7	5.4	12.7	20	50
G502-1016-zz	M16	16.5	1 - 4	5 - 9	10.5	18	21	50
G502-1020-zz	M20	20.5	1 - 4	8 - 13	12.7	20	25.5	50
G502-1025-zz	M25	25.5	1 - 4	11 - 17	14.5	21.6	30.5	50
G502-1032-zz	M32	32.5	1 - 4	15 - 20	17.5	24.8	38.5	25
G502-1040-zz	M40	40.5	1 - 4	19 - 28	20.4	30	48.5	25
G502-1050-zz	M50	50.5	1 - 4	27 - 35	23.9	35	60.5	10
G502-1063-zz	M63	63.5	1 - 4	34 - 45	28.9	40	73.5	5

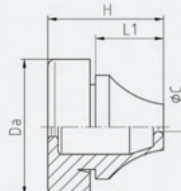
Sealing grommets - Pg



Scan this QR code for article numbers, current prices and stock information and to order directly.

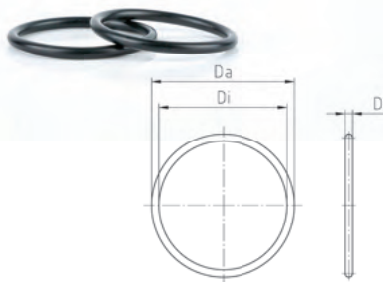
Technical specifications

Brand : Jacob
 Material : Ethylene-Propylene rubber EPDM
 Temperature range : -40 °C up to +110 °C
 Protection grade : IP67
 Available colors : Silver grey (RAL 7001)= ● Light grey (RAL 7035)= ●
 Black (RAL 9005)= ●



Art. no.	Size	Ø Hole (mm)	Wall thickness T (mm)	Cable Ø C (mm)	L1 (mm)	Height (mm)	Da (mm)	PU (pcs.)
G502-2007-zz	Pg7	13	0.5 - 2	3 - 5	5.4	12.7	20	50
G502-2009-zz	Pg9	16	1 - 4	5 - 7	10.3	18	21	50
G502-2011-zz	Pg11	19	1 - 4	7 - 10	12.7	20	24	50
G502-2016-zz	Pg16	23	1 - 4	10 - 14	14.7	21.6	28	50
G502-2021-zz	Pg21	29	1 - 4	14 - 20	17.6	24.8	35	25
G502-2029-zz	Pg29	38	1 - 4	20 - 26	20	28.5	46	25
G502-2036-zz	Pg36	48	1 - 4	26 - 35	23.9	35	58	10

O-rings



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand : Jacob
 Material : Nitrile rubber NBR
 Temperature range : -30 °C up to +100 °C
 Comment : Assembled O-ring enable higher protection grades
 Properties : For improved sealing on the connecting thread
 : Ozone tested

Art. no.	Size	Thickness (mm)	Da (mm)	Di (mm)	PU (pcs.)
50.312 G/1.5	M12	1.5	12	9	100
309 G/1.5	M16/Pg9	1.5	16	13	100
313 G/1.5	M20/Pg13.5	1.5	21	18	100
50.325 G/2	M25	2.0	25	21	50
50.332 G/2.5	M32	2.5	34	29	25
50.340 G/2	M40	2.0	41	37	10
50.350 G/2.5	M50	2.5	52	47	5
50.363 G/3	M63	3.0	66	60	5



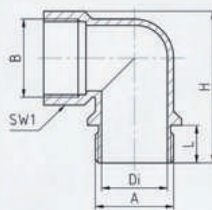
4.10 Elbow cable glands

Plastic cable glands, elbow 90° - Metric



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF25
 Connecting thread : Metric (EN 60423)
 Temperature range : -20 °C up to +100 °C
 Protection grade : Dependent on the combination with other components
 Color : Light grey (RAL 7035)= ● Black (RAL 9005)= ●



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Art. no.	Connecting thread	Thread length (mm)	SW1 (mm)	Height (mm)	Di (mm)	PU (pcs.)
21.616PA7035	M16x1.5	12	19	38	12.2	100
21.620PAzzzz*	M20x1.5	12	23	42	16	50
21.625PA7035	M25x1.5	12	29	48.5	21	50
21.632PA7035	M32x1.5	14	36	57.5	27.6	25
21.640PA7035	M40x1.5	14	44	67	35	10

* = Available in Black (RAL 9005)= ●

Plastic cable glands, elbow 90° - Pg



Technical specifications

Brand : Jacob
 Material : Polyamide PA6 GF25
 Connecting thread : PG (DIN 40430)
 Temperature range : -20 °C up to +100 °C
 Protection grade : Dependent on the combination with other components
 Color : Light grey (RAL 7035)= ●

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Art. no.	Connecting thread	Thread length (mm)	Height (mm)	Diameter (mm)	PU (pcs.)
21.009 PA	PG9	11.0	30	11.5	100
21.011 PA	PG11	11.0	33	14.5	50
21.013 PA	PG13.5	11.5	35.5	16	50
21.016 PA	PG16	11.5	38.5	18.5	50
21.021 PA	PG21	13.0	46	24	25
21.029 PA	PG29	15.0	59	32	10

Zinc die-casting cable glands, elbow 90° - Metric



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Technical specifications

Brand	: Jacob
Material	: Zinc die-casting, nickel-plated, locknut brass
Connecting thread	: Metric (EN 60423)
Temperature range	: -20 °C up to +100 °C
Protection grade	: Dependent on the combination with other components

Art. no.	Connecting thread	Thread length (mm)	Height (mm)	Diameter (mm)	PU (pcs.)
21.616M	M16 x 1.5	16.0	38	12.2	100
21.620M	M20 x 1.5	16.0	42	16	50
21.625M	M25 x 1.5	16.5	48.5	21	50
21.632M	M32 x 1.5	18.5	57.5	27.6	25
21.640M	M40 x 1.5	19.0	67	35	10





5. Crimp terminals

Ring terminals

Ring terminals are the most commonly used type of terminal. Ring terminals provide a solid connection, without the chance of getting loose.

Spade terminals

Spade terminals are similar to ring terminals, except for the fact that they are designed for easy and quick installation and removal. While, with a ring terminal, you have to slide over a bolt or stud, you can install a spade terminal without completely disassembling the nut. You install a spade terminal by slightly loosening the nut and sliding the spade under the nut. Then you tighten the nut again.

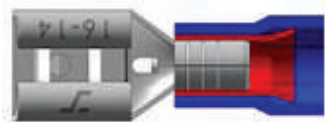
Disconnectors (male) / Disconnectors (female)

Sometimes a device must be installed in such a way that it can be easily removed, for example for maintenance of a device. Disconnectors are designed in such a way that they can be easily disconnected and reconnected by sliding them together. WKK supplies 4 different types of disconnectors: half insulated male, half insulated female, fully insulated female and half insulated female + male (piggyback). The latter is also called a two-way terminal. These are ideal when there is only a limited number of male terminals (tabs) available.

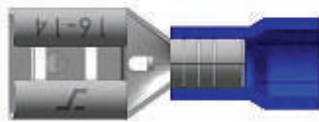
Butt connectors

Butt connectors have a different purpose than "normal" terminals. While most terminals are used to connect wires or cables to equipment, butt connectors are used to make splices on wires or to repair damaged wires. Instead of installing a completely new wire, you can cut an existing wire and connect an additional wire to the system using a butt connector. When a wire is damaged, instead of replacing the entire wire, you can just cut out the damaged part and connect the wire back together using a butt connector. WKK supplies these butt connectors in 3 variants: fully insulated, heat shrinkable (for 100% watertightness) and a solder connector (100% waterproof and chemically resistant).

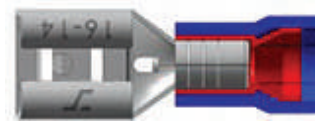
All our insulated terminals are available in three different versions:



Standard version



Version without sleeve



Easy entry version

Conversion table AWG / MM²:

Red 22-16 AWG 0.5-1.5 mm ²	Blue 16-14 AWG 1.5-2.5 mm ²	Yellow 12-10 AWG 4-6 mm ²
---	--	--

Conversion table AWG / MM²:

AWG size	mm ²	AWG size	mm ²
22-16	0.5-1.5	1/0	50
16-14	1.5-2.5	2/0	70
12-10	4.0-6.0	3/0	95
8	10	4/0	120
6	16	250/300 kcmil	150
4	25	300/350 kcmil	185
2	35	400/450 kcmil	240

Tooling:

Type	Tool	
	433112113	57818
Ring terminals		X
Spade terminals		X
Disconnectors		X
Butt connectors		X
Bullet disconnectors		X
Pin terminals		X
Uninsulated terminals	X	only from 0.5 - 10.0mm ²

Ring terminals - Insulated

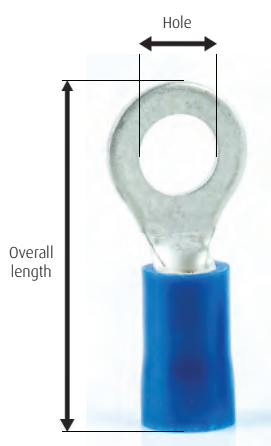


Technical specifications

Brand	: WKK
Crimp terminal type	: Ring terminals
Maximum electrical voltage	: 600 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated copper
Approvals	: RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	Color	Wire range (mm ²)	AWG	Hole (mm)	Overall length (mm)	PU (pcs.)
R 3.2 r	Red	0.5 ~ 1.5	22 ~ 16	3.2	18	100
R 3.7 r	Red	0.5 ~ 1.5	22 ~ 16	3.7	20	100
R 4.3 r	Red	0.5 ~ 1.5	22 ~ 16	4.3	20	100
R 5.3 r	Red	0.5 ~ 1.5	22 ~ 16	5.3	21	100
R 6.4 r	Red	0.5 ~ 1.5	22 ~ 16	6.4	27	100
R 8.4 r	Red	0.5 ~ 1.5	22 ~ 16	8.4	27	100
R 10.5 r	Red	0.5 ~ 1.5	22 ~ 16	10.5	31	100
R 3.7 b	Blue	1.5 ~ 2.5	16 ~ 14	3.7	20	100
R 4.3 b	Blue	1.5 ~ 2.5	16 ~ 14	4.3	22	100
R 5.3 b	Blue	1.5 ~ 2.5	16 ~ 14	5.3	22	100
R 6.4 b	Blue	1.5 ~ 2.5	16 ~ 14	6.4	27	100
R 8.4 b	Blue	1.5 ~ 2.5	16 ~ 14	8.4	27	100
R 10.5 b	Blue	1.5 ~ 2.5	16 ~ 14	10.5	31	100
R 3.7 g	Yellow	4.0 ~ 6.0	12 ~ 10	3.7	23	100
R 4.3 g	Yellow	4.0 ~ 6.0	12 ~ 10	4.3	27	100
R 5.3 g	Yellow	4.0 ~ 6.0	12 ~ 10	5.3	27	100
R 6.4 g	Yellow	4.0 ~ 6.0	12 ~ 10	6.4	30	100
R 8.4 g	Yellow	4.0 ~ 6.0	12 ~ 10	8.4	35	100
R 10.5 g	Yellow	4.0 ~ 6.0	12 ~ 10	10.5	35	100



Spade terminals - Insulated

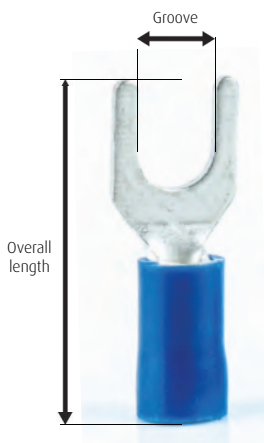


Technical specifications

Brand	: WKK
Crimp terminal type	: Spade terminals
Maximum electrical voltage	: 600 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated copper
Approvals	: RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	Color	Wire range (mm ²)	AWG	Groove (mm)	Overall Length (mm)	PU (pcs.)
V 3.2 r	Red	0.5 - 1.5	22 - 16	3.2	21	100
V 3.7 r	Red	0.5 - 1.5	22 - 16	3.7	21	100
V 4.3 r	Red	0.5 - 1.5	22 - 16	4.3	21	100
V 5.3 r	Red	0.5 - 1.5	22 - 16	5.3	21	100
V 6.4 r	Red	0.5 - 1.5	22 - 16	6.4	21	100
V 3.7 b	Blue	1.5 - 2.5	16 - 14	3.7	21	100
V 4.3 b	Blue	1.5 - 2.5	16 - 14	4.3	21	100
V 5.3 b	Blue	1.5 - 2.5	16 - 14	5.3	21	100
V 6.4 b	Blue	1.5 - 2.5	16 - 14	6.4	27	100
V 3.7 g	Yellow	4.0 - 6.0	12 - 10	3.7	26	100
V 4.3 g	Yellow	4.0 - 6.0	12 - 10	4.3	26	100
V 5.3 g	Yellow	4.0 - 6.0	12 - 10	5.3	26	100
V 6.4 g	Yellow	4.0 - 6.0	12 - 10	6.4	32	100



5.2 Crimp terminals

Bullet disconnectors - Insulated - Male



Technical specifications

Brand	: WKK
Crimp terminal type	: Bullet disconnectors male
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated brass
Approvals	: RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	Color	Wire range (mm ²)	AWG	Diameter connector (mm)	Packing (pcs)
Kog m 4 r	Red	0.5 ~ 1.5	22 ~ 16	4	100
Kog m 4 b	Blue	1.5 ~ 2.5	16 ~ 14	4	100
Kog m 5 b	Blue	1.5 ~ 2.5	16 ~ 14	5	100
Kog m 5 g	Yellow	4.0 ~ 6.0	12 ~ 10	5	100

Diameter connector



Bullet disconnectors - Insulated - Female



Technical specifications

Brand	: WKK
Crimp terminal type	: Bullet disconnectors female
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated brass
Approvals	: RoHS

Scan this QR code for article numbers, current prices and stock information and to order directly.

Type no.	Color	Wire range (mm ²)	AWG	Diameter connector (mm)	PU (pcs.)
Kog v 4 r	Red	0.5 ~ 1.5	22 ~ 16	4	100
Kog v 4 b	Blue	1.5 ~ 2.5	16 ~ 14	4	100
Kog v 5 b	Blue	1.5 ~ 2.5	16 ~ 14	5	100
Kog v 5 g	Yellow	4.0 ~ 6.0	12 ~ 10	5	100

Disconnectors - Insulated - Female



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: WKK
Crimp terminal type	: Disconnectors female
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated brass
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Tab (mm)	PU (pcs.)
Con vh 2.8 rs	Red	0.5 ~ 1.5	22 ~ 16	0.5 * 2.8	100
Con vh 2.8 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 2.8	100
Con vh 4.8 rs	Red	0.5 ~ 1.5	22 ~ 16	0.5 * 4.8	100
Con vh 4.8 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 4.8	100
Con vh 6.3 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 6.3	100
Con vh 2.8 bs	Blue	1.5 ~ 2.5	16 ~ 14	0.5 * 2.8	100
Con vh 2.8 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 2.8	100
Con vh 4.8 bs	Blue	1.5 ~ 2.5	16 ~ 14	0.5 * 4.8	100
Con vh 4.8 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 4.8	100
Con vh 6.3 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 6.3	100
Con vh 6.3 g	Yellow	4.0 ~ 6.0	12 ~ 10	0.8 * 6.3	100

Disconnectors - Fully insulated - Female



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Technical specifications

Brand	: WKK
Crimp terminal type	: Disconnectors female
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated brass
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Tab (mm)	PU (pcs.)
Con vv 2.8 rs	Red	0.5 ~ 1.5	22 ~ 16	0.5 * 2.8	100
Con vv 2.8 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 2.8	100
Con vv 4.8 rs	Red	0.5 ~ 1.5	22 ~ 16	0.5 * 4.8	100
Con vv 4.8 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 4.8	100
Con vv 6.3 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 6.3	100
Con vv 2.8 bs	Blue	1.5 ~ 2.5	16 ~ 14	0.5 * 2.8	100
Con vv 2.8 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 2.8	100
Con vv 4.8 bs	Blue	1.5 ~ 2.5	16 ~ 14	0.5 * 4.8	100
Con vv 4.8 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 4.8	100
Con vv 6.3 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 6.3	100
Con vv 6.3 g	Yellow	4.0 ~ 6.0	12 ~ 10	0.8 * 6.3	100

Disconnectors - Insulated - Male



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Technical specifications

Brand	: WKK
Crimp terminal type	: Disconnectors male
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated brass
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Tab (mm)	PU (pcs.)
Con mh 2.8 rs	Red	0.5 ~ 1.5	22 ~ 16	0.5 * 2.8	100
Con mh 2.8 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 2.8	100
Con mh 4.8 rs	Red	0.5 ~ 1.5	22 ~ 16	0.5 * 4.8	100
Con mh 4.8 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 4.8	100
Con mh 6.3 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 6.3	100
Con mh 2.8 bs	Blue	1.5 ~ 2.5	16 ~ 14	0.5 * 2.8	100
Con mh 2.8 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 2.8	100
Con mh 4.8 bs	Blue	1.5 ~ 2.5	16 ~ 14	0.5 * 4.8	100
Con mh 4.8 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 4.8	100
Con mh 6.3 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 6.3	100
Con mh 6.3 g	Yellow	4.0 ~ 6.0	12 ~ 10	0.8 * 6.3	100

Piggyback disconnectors - Insulated



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Technical specifications

Brand	: WKK
Crimp terminal type	: Piggyback disconnectors
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated brass
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Tab (mm)	PU (pcs.)
Con dh 6.3 r	Red	0.5 ~ 1.5	22 ~ 16	0.8 * 6.3	100
Con dh 6.3 b	Blue	1.5 ~ 2.5	16 ~ 14	0.8 * 6.3	100
Con dh 6.3 g	Yellow	4.0 ~ 6.0	12 ~ 10	0.8 * 6.3	100

Pin terminals - Insulated



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: WKK
Crimp terminal type	: Pin terminals
Maximum electrical voltage	: 600 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated copper
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Overall Length (mm)	Packing (pcs)
Pin r	Red	0.5 ~ 1.5	22 ~ 16	22	100
Pin b	Blue	1.5 ~ 2.5	16 ~ 14	22	100
Pin g	Yellow	4.0 ~ 6.0	12 ~ 10	27	100

Butt connectors - Insulated



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Technical specifications

Brand	: WKK
Crimp terminal type	: Butt connectors
Maximum electrical voltage	: 600 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (vinyl)
Connector material	: Tin plated copper
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Overall length (mm)	PU (pcs.)
Ver 1.25 r	Red	0.5 ~ 1.5	22 ~ 16	26	100
Ver 2 b	Blue	1.5 ~ 2.5	16 ~ 14	26	100
Ver 5.5 g	Yellow	4.0 ~ 6.0	12 ~ 10	26	100

Heat shrink butt connectors - Insulated



Technical specifications

Brand	: WKK
Crimp terminal type	: Heat shrink butt connectors
Temperature range	: 600 V max.
Operating temperature (°C)	: -55 °C up to +125 °C
Min. shrink temperature (°C)	: 180 °C
Insulation material	: Nylon (PA66)
Connector material	: Tin plated copper
Approvals	: RoHS

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Type no.	Color	Wire range (mm ²)	AWG	Overall length (mm)	PU (pcs.)
Ver 0.5 t heat shrink	Transparent	0.25 ~ 0.5	26 ~ 24	28	100
Ver 1.25 r heat shrink	Red	0.5 ~ 1.5	22 ~ 18	35	100
Ver 2 b heat shrink	Blue	1.5 ~ 2.5	16 ~ 14	35	100
Ver 5.5 g heat shrink	Yellow	4.0 ~ 6.0	12 ~ 10	41	100

Heat shrink solder butt connectors - Insulated



Technical specifications

Brand	: WKK
Crimp terminal type	: Heat shrink solder butt connectors
Operating temperature (°C)	: -55 °C up to +125 °C
Shrink temperature (°C)	: > +140 °C
Insulation material	: Polyolefin

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Type no.	Color	Wire range (mm ²)	Overall Length (mm)	PU (pcs.)
Solder 0.3 - 0.8 transp.	Transparent	0.3 ~ 0.8	26	100
Solder 0.8 - 2.0 red	Red	0.8 ~ 2.0	42	100
Solder 2.0 - 4.0 blue	Blue	2.0 ~ 4.0	42	100
Solder 4.0 - 6.0 yellow	Yellow	4.0 ~ 6.0	42	100

Quick splice connectors - Single tab



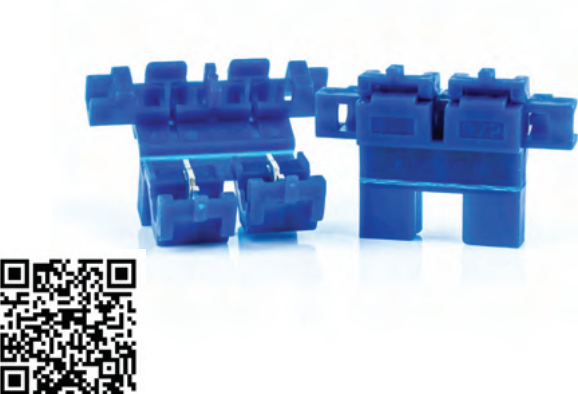
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Technical specifications

Brand	: WKK
Crimp terminal type	: Quick splice connectors
Maximum electrical voltage	: 600 V max.
Maximum temperature (°C)	: 105 °C
Insulation material	: Polypropylene
Connector material	: Tin plated brass
Approvals	: RoHS

Type no.	Color	Wire range (mm ²)	AWG	Overall Length (mm)	PU (pcs.)
41573201271	Red	0.5 ~ 1.0	22 ~ 18	38	100
41574202671	Blue	1.0 ~ 2.5	18 ~ 14	38	100
41576223471	Yellow	4.0 ~ 6.0	12 ~ 10	33	100

Fuse holders



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Technical specifications

Brand	: WKK
Crimp terminal type	: Fuse holders
Maximum electrical voltage	: 600 V max.
Maximum temperature (°C)	: 105 °C
Insulation material	: Polypropylene
Connector material	: Brass

Type no.	Color	Wire range (mm ²)	AWG	Overall Length (mm)	Packing (pcs)
41610685	Blue	0.75 ~ 2.5	18 ~ 14	34	200

Non-insulated DIN 46234 Ring terminals



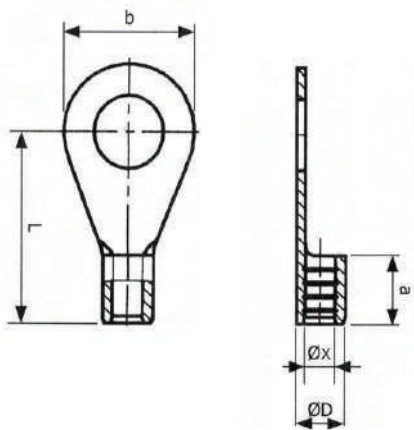
Technical specifications

Brand : WKK
 Crimp terminal type : DIN 46234 Ring terminals
 Connector material : Tin plated copper
 Approvals : DIN 46234, RoHS
 On request: 95 mm², 120 mm², 150 mm², 185 mm² and 240 mm²

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Type no.	Wire range (mm ²)	AWG	Hole diameter (mm)	X (mm)	D (mm)	b (mm)	L (mm)	a (mm)	PU (pcs.)
PKQ 15.03	0.5 - 1.5	22 ~ 16	3	1.6	3.2	6	11	5	100
PKQ 15.04	0.5 - 1.5	22 ~ 16	4	1.6	3.2	8	12	5	100
PKQ 15.05	0.5 - 1.5	22 ~ 16	5	1.6	3.2	10	13	5	100
PKQ 15.06	0.5 - 1.5	22 ~ 16	6	1.6	3.2	10	13	5	100
PKQ 15.08	0.5 - 1.5	22 ~ 16	8	1.6	3.2	14	17	5	100
PKQ 15.10	0.5 - 1.5	22 ~ 16	10	1.6	3.2	14	17	5	100
PKQ 25.03	1.5 - 2.5	16 ~ 14	3	2.3	3.9	6	11	5	100
PKQ 25.04	1.5 - 2.5	16 ~ 14	4	2.3	3.9	8	12	5	100
PKQ 25.05	1.5 - 2.5	16 ~ 14	5	2.3	3.9	10	14	5	100
PKQ 25.06	1.5 - 2.5	16 ~ 14	6	2.3	3.9	11	16	5	100
PKQ 25.08	1.5 - 2.5	16 ~ 14	8	2.3	3.9	14	17	5	100
PKQ 25.10	1.5 - 2.5	16 ~ 14	10	2.3	3.9	18	18	5	100
PKQ 25.12	1.5 - 2.5	16 ~ 14	12	2.3	3.9	18	18	5	100
PKQ 60.04	4.0 - 6.0	12 ~ 10	4	3.6	5.6	8	14	6	100
PKQ 60.05	4.0 - 6.0	12 ~ 10	5	3.6	5.6	10	15	6	100
PKQ 60.06	4.0 - 6.0	12 ~ 10	6	3.6	5.6	11	16	6	100
PKQ 60.08	4.0 - 6.0	12 ~ 10	8	3.6	5.6	14	19	6	100
PKQ 60.10	4.0 - 6.0	12 ~ 10	10	3.6	5.6	18	21	6	100
PKQ 60.12	4.0 - 6.0	12 ~ 10	12	3.6	5.6	18	21	6	100
PKQ 100.05	10	8	5	4.5	6.7	10	16	8	100
PKQ 100.06	10	8	6	4.5	6.7	11	17	8	100
PKQ 100.08	10	8	8	4.5	6.7	14	20	8	100
PKQ 100.10	10	8	10	4.5	6.7	18	21	8	100
PKQ 100.12	10	8	12	4.5	6.7	22	23	8	100
PKQ 160.05	16	6	5	5.8	8.2	11	20	10	100
PKQ 160.06	16	6	6	5.8	8.2	11	20	10	100
PKQ 160.08	16	6	8	5.8	8.2	18	24	10	100
PKQ 160.10	16	6	10	5.8	8.2	18	24	10	100
PKQ 160.12	16	6	12	5.8	8.2	22	26	10	100
PKQ 250.05	25	4	5	7.5	10.5	12	25	11	100
PKQ 250.06	25	4	6	7.5	10.5	12	25	11	100
PKQ 250.08	25	4	8	7.5	10.5	16	25	11	100
PKQ 250.10	25	4	10	7.5	10.5	18	26	11	100
PKQ 250.12	25	4	12	7.5	10.5	22	31	11	100
PKQ 250.16	25	4	16	7.5	10.5	28	35	11	100

Type no.	Wire range (mm ²)	AWG	Hole diameter (mm)	X (mm)	D (mm)	b (mm)	L (mm)	a (mm)	PU (pcs.)
PKQ 350.06	35	2	6	9	12.2	15	26	12	100
PKQ 350.08	35	2	8	9	12.2	16	26	12	100
PKQ 350.10	35	2	10	9	12.2	18	27	12	100
PKQ 350.12	35	2	12	9	12.2	22	31	12	100
PKQ 350.16	35	2	16	9	12.2	28	36	12	100
PKQ 500.06	50	1/0	6	11	14.6	18	34	16	100
PKQ 500.08	50	1/0	8	11	14.6	18	34	16	100
PKQ 500.10	50	1/0	10	11	14.6	18	34	16	100
PKQ 500.12	50	1/0	12	11	14.6	22	36	16	100
PKQ 500.16	50	1/0	16	11	14.6	28	40	16	100
PKQ 700.06	70	2/0	6	13	17	22	36	18	100
PKQ 700.08	70	2/0	8	13	17	22	38	18	100
PKQ 700.10	70	2/0	10	13	17	22	38	18	100
PKQ 700.12	70	2/0	12	13	17	22	38	18	100
PKQ 700.16	70	2/0	16	13	17	28	42	18	100



Tube crimping terminals - Non-insulated - With inspection hole



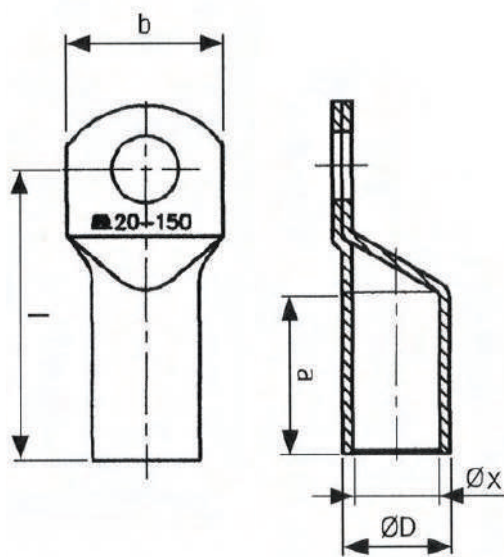
Technical specifications

Brand : WKK
 Crimp terminal type : Tube terminals
 Operating temperature (°C) : -50 °C up to +150 °C
 Connector material : Tin plated copper
 Approvals : RoHS
 On request: 185 mm², 240 mm², 300 mm² and 400 mm²

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Type no.	Wire range (mm ²)	AWG	Hole diameter (mm)	X (mm)	D (mm)	a (mm)	l (mm)	b (mm)	PU (pcs.)
PKK 60.05	6	10	5	3.6	5.6	9	21	11.5	100
PKK 60.06	6	10	6	3.6	5.6	9	21	11.5	100
PKK 60.08	6	10	8	3.6	5.6	9	23	13	100
PKK 60.10	6	10	10	3.6	5.6	9	25	16	100
PKK 100.05	10	8	5	4.5	7	10	21	12	100
PKK 100.06	10	8	6	4.5	7	10	21.5	12	100
PKK 100.08	10	8	8	4.5	7	10	23.5	15	100
PKK 100.10	10	8	10	4.5	7	10	25.5	17	100
PKK 160.05	16	6	5	5.5	8.5	13	25	12	100
PKK 160.06	16	6	6	5.5	8.5	13	25.5	12	100
PKK 160.08	16	6	8	5.5	8.5	13	27.5	15	100
PKK 160.10	16	6	10	5.5	8.5	13	29.5	17	100
PKK 160.12	16	6	12	5.5	8.5	13	30.5	19	100
PKK 250.05	25	4	5	7.2	10	15	28	14	100
PKK 250.06	25	4	6	7.2	10	15	28.5	14	100
PKK 250.08	25	4	8	7.2	10	15	30.5	16	100
PKK 250.10	25	4	10	7.2	10	15	32.5	18	100
PKK 250.12	25	4	12	7.2	10	15	33.5	19	100
PKK 350.06	35	2	6	8.5	12	17	31.5	18	100
PKK 350.08	35	2	8	8.5	12	17	33.5	18	100
PKK 350.10	35	2	10	8.5	12	17	35.5	18	100
PKK 350.12	35	2	12	8.5	12	17	36.5	20	100
PKK 500.06	50	1/0	6	10.2	14	19	34.5	20	100
PKK 500.08	50	1/0	8	10.2	14	19	36.5	20	100
PKK 500.10	50	1/0	10	10.2	14	19	38.5	20	100
PKK 500.12	50	1/0	12	10.2	14	19	39.5	23	100
PKK 500.16	50	1/0	16	10.2	14	19	42.5	28	100
PKK 700.06	70	2/0	6	12	16.5	21	40.5	23	50
PKK 700.08	70	2/0	8	12	16.5	21	40.5	23	50
PKK 700.10	70	2/0	10	12	16.5	21	43.5	23	50
PKK 700.12	70	2/0	12	12	16.5	21	43.5	23	50
PKK 700.14	70	2/0	14	12	16.5	21	46.5	28	50
PKK 700.16	70	2/0	16	12	16.5	21	46.5	28	50

Type no.	Wire range (mm ²)	AWG	Hole diameter (mm)	X (mm)	D (mm)	b (mm)	L (mm)	a (mm)	PU (pcs.)
PKK 950.08	95	3/0	8	13.5	17.8	24	47	25	50
PKK 950.10	95	3/0	10	13.5	17.8	24	47	25	50
PKK 950.12	95	3/0	12	13.5	17.8	24	47	25	50
PKK 950.14	95	3/0	14	13.5	17.8	24	50	25	50
PKK 950.16	95	3/0	16	13.5	17.8	24	50	29	50
PKK 1200.08	120	4/0	8	15	19.5	26	50	29	30
PKK 1200.10	120	4/0	10	15	19.5	26	50	29	30
PKK 1200.12	120	4/0	12	15	19.5	26	50	29	30
PKK 1200.16	120	4/0	16	15	19.5	26	53	29	30
PKK 1500.10	150	5/0	10	16.5	20.8	29	54	31	10
PKK 1500.12	150	5/0	12	16.5	20.8	29	54	31	10
PKK 1500.20	150	5/0	20	16.5	20.8	29	61.5	35	10



5.3 Crimp tools for crimp terminals

Crimp tool - For insulated crimp terminals of 0.5 – 6.0 mm²



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Technical specifications

Brand	: WKK
Art. no.	: 417411
Color	: Black / Blue
Crimp type	: Double indent crimp
For crimp terminal type	: Insulated terminals of 0.5 - 6.0 mm ²

Crimp tool - Steel - For insulated crimp terminals of 0.5 – 6.0 mm²



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Technical specifications

Brand	: WKK
Art. no.	: 417517
Color	: Yellow / Black
Crimp type	: Oval crimp
For crimp terminal type	: Insulated terminals of 0.5 - 6.0 mm ²

Crimp tool for uninsulated terminals 0.75 - 16 mm²



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Technical specifications

Brand	: WKK
Art. no.	: 433112113
Color	: Black / Grey
Crimp type	: Indent crimp
For type	: Uninsulated tube & crimp terminals 0.75 - 16 mm ²

Crimp tool with 3 changeable inserts



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Technical specifications

Brand	: WKK
Art. no.	: 57818
Color	: Black / Grey
Crimp type	: Trapezoidal crimp, oval crimp, indent crimp
For ferrule / terminal type	: Die set 1: for insulated & uninsulated bootlace ferrules, 0.5 - 16.0 mm ² : Die set 2: for insulated terminals from 0.5 - 6.0 mm ² : Die set 3: for uninsulated terminals from 0.5 - 10.0 mm ² , DIN 46234

Assortment crimp terminals with crimp tool (261 pieces)



Technical specifications

Brand	: WKK
Maximum electrical voltage	: 300 V max.
Operating temperature (°C)	: -10 °C up to +75 °C
Insulation material	: PVC (Vinyl)
Connector material	: Tin plated copper and brass



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Type	Color	Pieces
Crimp tool for crimp terminals		1
Insulated female disconnectors	Red	25
Insulated female disconnectors	Blue	25
Insulated male disconnectors	Red	25
Insulated male disconnectors	Blue	25
Insulated piggy-back connectors	Red	25
Insulated piggy-back connectors	Blue	25
Insulated butt connectors	Red (26 mm)	25
Insulated butt connectors	Blue (26 mm)	25
Ring terminals	Red (ring m5.3)	25
Ring terminals	Blue (ring m6.4)	25
Quick splice connectors	Red	5
Quick splice connectors	Blue	5

Assortment heat shrink crimp terminals (110 pieces)



Technical specifications

Brand	: WKK
Operating temperature (°C)	: -55 °C up to +125 °C
Shrink temperature (°C)	: 180 °C
Insulation material	: Polyolefin
Connector material	: Tin plated copper



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Type no.	Color	Pieces
Insulated butt connectors	Red	20
Insulated butt connectors	Blue	20
Insulated butt connectors	Yellow	10
Insulated female disconnectors	Red	10
Insulated female disconnectors	Blue	10
Insulated male disconnectors	Red	10
Insulated male disconnectors	Blue	10
Insulated ring terminals	Red (ring m5.3)	10
Insulated ring terminals	Blue (ring m5.3)	10



6. Cable end-sleeves

What are cable end-sleeves used for?

Cable end-sleeves are used when connecting a flexible installation wire stranded to a terminal. If a cable end-sleeve is not used, there is a chance that the wire (strand) will be damaged or even broken. By using the ferrule you can turn a braided wire into a solid conductor. In addition, the cable end-sleeve also ensures a stronger connection and a longer lifespan.

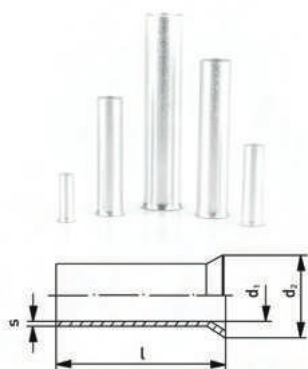
Insulated or uninsulated cable end-sleeves

In general, insulated cable end-sleeves are most commonly used because the plastic collar makes it easier to place the wire into the copper tube. The plastic collars of insulated cable end-sleeves each have a specific color. This "color code" indicates the core to be included. Three systems are used for this: the French (Telemecanic), the German (Weidmuller) and the DIN standard. Sometimes these color codes are also used to refer to the different functions of the wires (color coding). When there is little space available or if no color coding is required, you can use uninsulated cable end-sleeves.

Tooling

	Article no.	Crimp type	For cable end-sleeve type	
			Insulated and uninsulated cable end-sleeves	TWIN cable end-sleeves
	559218	Trapezoidal crimp	0.25 - 2.5mm ²	2 x 0.5 - 2 x 1.5mm ²
	5512218	Square crimp	0.08 - 10.0mm ²	2 x 0.5 - 2 x 4.0mm ²
	5514818	Hexagon crimp	0.08 - 16.0mm ²	2 x 0.5 - 2 x 6.0mm ²

Uninsulated cable end-sleeves



Technical specifications

Brand	: WKK
Material	: Tin plated copper
Minimum coating thickness	: 3 µm
Approvals	: DIN 46228/1

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Type no.	Mm ²	AWG	L (mm)	D1 (mm)	D2 (mm)	S (mm)	Packing (pcs)
Co 001407	0.14	26	7	0.65	1.6	0.15	1.000
Co 002505	0.25	24	5	0.75	1.7	0.15	1.000
Co 002507	0.25	24	7	0.75	1.7	0.15	1.000
Co 002510	0.25	24	10	0.75	1.7	0.15	1.000
Co 003405	0.34	22	5	0.85	1.8	0.15	1.000
Co 003407	0.34	22	7	0.85	1.8	0.15	1.000
Co 005006	0.50	20	6	1.00	2.1	0.15	1.000
Co 005008	0.50	20	8	1.00	2.1	0.15	1.000
Co 005010	0.50	20	10	1.00	2.1	0.15	1.000
Co 005012	0.50	20	12	1.00	2.1	0.15	1.000
Co 007506	0.75	18	6	1.20	2.3	0.15	1.000
Co 007508	0.75	18	8	1.20	2.3	0.15	1.000
Co 007510	0.75	18	10	1.20	2.3	0.15	1.000
Co 007512	0.75	18	12	1.20	2.3	0.15	1.000
Co 007515	0.75	18	15	1.20	2.3	0.15	1.000
Co 01.0006	1.00	18	6	1.40	2.5	0.15	1.000
Co 01.0007	1.00	18	7	1.40	2.5	0.15	1.000
Co 01.0008	1.00	18	8	1.40	2.5	0.15	1.000
Co 010010	1.00	18	10	1.40	2.5	0.15	1.000
Co 010012	1.00	18	12	1.40	2.5	0.15	1.000
Co 010015	1.00	18	15	1.40	2.5	0.15	1.000
Co 015006	1.50	16	6	1.70	2.8	0.15	1.000
Co 015007	1.50	16	7	1.70	2.8	0.15	1.000
Co 015008	1.50	16	8	1.70	2.8	0.15	1.000
Co 015010	1.50	16	10	1.70	2.8	0.15	1.000
Co 015012	1.50	16	12	1.70	2.8	0.15	1.000
Co 015015	1.50	16	15	1.70	2.8	0.15	1.000
Co 015018	1.50	16	18	1.70	2.8	0.15	1.000
Co 015020	1.50	16	20	1.70	2.8	0.15	1.000
Co 025007	2.50	14	7	2.20	3.4	0.15	1.000
Co 025008	2.50	14	8	2.20	3.4	0.15	1.000
Co 025010	2.50	14	10	2.20	3.4	0.15	1.000
Co 025012	2.50	14	12	2.20	3.4	0.15	1.000
Co 025015	2.50	14	15	2.20	3.4	0.15	1.000
Co 025018	2.50	14	18	2.20	3.4	0.15	1.000
Co 025020	2.50	14	20	2.20	3.4	0.15	1.000
Co 040009	4.00	12	9	2.80	4.0	0.20	1.000
Co 040010	4.00	12	10	2.80	4.0	0.20	1.000
Co 040012	4.00	12	12	2.80	4.0	0.20	1.000
Co 040015	4.00	12	15	2.80	4.0	0.20	1.000
Co 040018	4.00	12	18	2.80	4.0	0.20	1.000
Co 040020	4.00	12	20	2.80	4.0	0.20	1.000

Type no.	Mm ²	AWG	L (mm)	D1 (mm)	D2 (mm)	S (mm)	Packing (pcs)
Co 060010	6.00	10	10	3.50	4.7	0.20	250
Co 060012	6.00	10	12	3.50	4.7	0.20	250
Co 060015	6.00	10	15	3.50	4.7	0.20	250
Co 060018	6.00	10	18	3.50	4.7	0.20	250
Co 060020	6.00	10	20	3.50	4.7	0.20	250
Co 1.00012	10.00	8	12	4.50	5.8	0.20	250
Co 1.00015	10.00	8	15	4.50	5.8	0.20	250
Co 1.00018	10.00	8	18	4.50	5.8	0.20	250
Co 1.00020	10.00	8	20	4.50	5.8	0.20	250
Co 1.00025	10.00	8	25	4.50	5.8	0.20	250
Co 160012	16.00	6	12	5.80	7.5	0.20	250
Co 160015	16.00	6	15	5.80	7.5	0.20	250
Co 160018	16.00	6	18	5.80	7.5	0.20	250
Co 160020	16.00	6	20	5.80	7.5	0.20	250
Co 160025	16.00	6	25	5.80	7.5	0.20	250
Co 160032	16.00	6	32	5.80	7.5	0.20	250
Co 250012	25	4	12	7.3	9.5	0.20	250
Co 250015	25	4	15	7.3	9.5	0.20	250
Co 250018	25	4	18	7.3	9.5	0.20	250
Co 250025	25	4	25	7.3	9.5	0.20	250
Co 250032	25	4	32	7.3	9.5	0.20	250
Co 350012	35	2	12	8.3	11.0	0.20	100
Co 350018	35	2	18	8.3	11.0	0.20	100
Co 350020	35	2	20	8.3	11.0	0.20	100
Co 350022	35	2	22	8.3	11.0	0.20	100
Co 350025	35	2	25	8.3	11.0	0.20	100
Co 350032	35	2	32	8.3	11.0	0.20	100
Co 500018	50	1	18	10.3	13.0	0.30	100
Co 500022	50	1	22	10.3	13.0	0.30	100
Co 500025	50	1	25	10.3	13.0	0.30	100
Co 500032	50	1	32	10.3	13.0	0.30	100
Co 700025	70	2/0	25	12.5	15.0	0.40	100
Co 700032	70	2/0	32	12.5	15.0	0.40	100
Co 950025	95	3/0	25	14.5	17.0	0.40	50
Co 950030	95	3/0	30	14.5	17.0	0.40	50
Co 950032	95	3/0	32	14.5	17.0	0.40	50
Co 120002	120	4/0	32	16.5	19.0	0.50	50
Co 1500032	150	300MCM	32	18.5	21.0	0.50	50
Co 1500038	150	300MCM	38	18.5	21.0	0.50	50
Co 1850032	185	350MCM	32	20.0	23.5	0.60	25
Co 1850040	185	350MCM	40	20.0	23.5	0.60	25
Co 2400040	240	500MCM	40	22.8	25.8	0.60	25

6.2 Cable end-sleeves

Insulated cable end-sleeves



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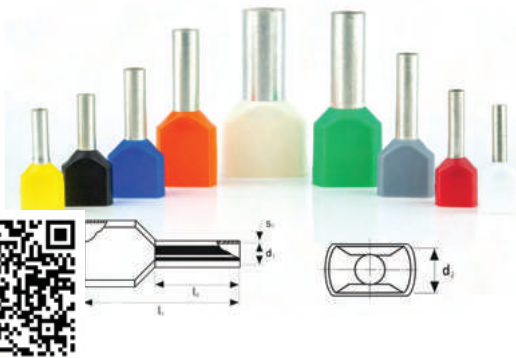
Technical specifications

Brand : WKK
 Material : Tin plated copper
 Insulation material : Polypropylene
 Temperature range : Up to +105 °C
 Minimum coating thickness : 3 µm
 Approvals : DIN 46228/4, CE

Type no.	Mm ²	AWG	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	Color T	Color W	Color D	Packing (pcs)
Ce 001406	0.14	26	10	6	0.70	1.60	0.15	Brown	Grey	-	500
Ce 001408	0.14	26	12	8	0.70	1.60	0.15	Brown	Grey	-	500
Ce 002506	0.25	24	10	6	0.75	1.80	0.15	Yellow	Blue	Purple	500
Ce 002508	0.25	24	12	8	0.75	1.80	0.15	Yellow	Blue	Purple	500
Ce 003406	0.34	22	10	6	0.80	2.00	0.15	Green	Turquoise	Pink	500
Ce 003408	0.34	22	12	8	0.80	2.00	0.15	Green	Turquoise	Pink	500
Ce 005006	0.50	20	12	6	1.00	2.60	0.15	White	Orange	White	500
Ce 005008	0.50	20	14	8	1.00	2.60	0.15	White	Orange	White	500
Ce 005010	0.50	20	16	10	1.00	2.60	0.15	White	Orange	White	500
Ce 007506	0.75	18	12	6	1.20	2.80	0.15	Blue	White	Grey	500
Ce 007508	0.75	18	14	8	1.20	2.80	0.15	Blue	White	Grey	500
Ce 007510	0.75	18	16	10	1.20	2.80	0.15	Blue	White	Grey	500
Ce 007512	0.75	18	18	12	1.20	2.80	0.15	Blue	White	Grey	500
Ce 01.0006	1.00	18	12	6	1.40	3.00	0.15	Red	Yellow	Red	500
Ce 01.0008	1.00	18	14	8	1.40	3.00	0.15	Red	Yellow	Red	500
Ce 010010	1.00	18	16	10	1.40	3.00	0.15	Red	Yellow	Red	500
Ce 010012	1.00	18	18	12	1.40	3.00	0.15	Red	Yellow	Red	500
Ce 015006	1.50	16	12	6	1.70	3.50	0.15	Black	Red	Black	500
Ce 015008	1.50	16	14	8	1.70	3.50	0.15	Black	Red	Black	500
Ce 015010	1.50	16	16	10	1.70	3.50	0.15	Black	Red	Black	500
Ce 015012	1.50	16	18	12	1.70	3.50	0.15	Black	Red	Black	500
Ce 015018	1.50	16	24	18	1.70	3.50	0.15	Black	Red	Black	500
Ce 025008	2.50	14	14	8	2.20	4.20	0.15	Grey	Blue	Blue	500
Ce 025010	2.50	14	16	10	2.20	4.20	0.15	Grey	Blue	Blue	500
Ce 025012	2.50	14	18	12	2.20	4.20	0.15	Grey	Blue	Blue	500
Ce 025018	2.50	14	24	18	2.20	4.20	0.15	Grey	Blue	Blue	500
Ce 040010	4.00	12	17	10	2.80	4.80	0.20	Orange	Grey	Grey	500
Ce 040012	4.00	12	20	12	2.80	4.80	0.20	Orange	Grey	Grey	500
Ce 040018	4.00	12	26	18	2.80	4.80	0.20	Orange	Grey	Grey	100
Ce 060012	6.00	10	20	12	3.50	6.30	0.20	Green	Black	Yellow	100
Ce 060018	6.00	10	26	18	3.50	6.30	0.20	Green	Black	Yellow	100
Ce 1.00012	10.00	8	22	12	4.50	7.60	0.20	Brown	Cream	Red	100
Ce 1.00018	10.00	8	28	18	4.50	7.60	0.20	Brown	Cream	Red	100

Type no.	Mm²	AWG	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	Color T	Color W	Color D	Packing (pcs)
Ce 160012	16.00	6	24	12	5.80	8.80	0.20	Cream	Green	Blue	100
Ce 160018	16.00	6	28	18	5.80	8.80	0.20	Cream	Green	Blue	100
Ce 250016	25.10	4	30	16	7.30	11.20	0.20	Black	Brown	Yellow	50
Ce 250018	25.10	4	30	18	7.30	11.20	0.20	Black	Brown	Yellow	50
Ce 250022	25.10	4	36	22	7.30	11.20	0.20	Black	Brown	Yellow	50
Ce 350016	35.10	2	30	16	8.30	12.70	0.20	Red	Cream	Red	50
Ce 350018	35.10	2	30	18	8.30	12.70	0.20	Red	Cream	Red	50
Ce 350025	35.10	2	39	25	8.30	12.70	0.20	Red	Cream	Red	50
Ce 500020	50.00	1	36	20	10.30	15.10	0.30	Blue	Olive	Blue	50
Ce 500025	50.00	1	40	25	10.30	15.10	0.30	Blue	Olive	Blue	50
Ce 700021	70.00	2/0	37	21	13.50	16.00	0.40	Yellow	Yellow	Yellow	25
Ce 950025	95.10	3/0	44	25	14.50	18.00	0.40	Red	Red	Red	25
Ce 1200027	120.00	4/0	48	27	16.50	20.00	0.45	Blue	Blue	Blue	25
Ce 1500032	150.00	300 MCM	58	32	19.50	23.00	0.50	Yellow	Yellow	Yellow	25

TWIN Insulated cable end-sleeves



Technical specifications

Brand	: WKK
Material	: Tin plated copper
Insulation material	: Polypropylene
Temperature range	: Up to +105 °C
Minimum coating thickness	: 3 µm
Approvals	: DIN 46228/4, CE

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Type no.	Mm²	AWG	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	S1 (mm)	Color T	Color W	Color D	Packing (pcs)
Ct 002508	0.25	2 x 24	15	8	1.15	1.8	0.15	Purple	Blue	-	500
Ct 003408	0.34	2 x 22	15	8	1.15	1.8	0.15	-	Turquoise	-	500
Ct 005008	0.50	2 x 20	15	8	1.40	2.5	0.15	White	Orange	White	500
Ct 007508	0.75	2 x 18	15	8	1.70	2.8	0.15	Blue	White	Grey	500
Ct 007510	0.75	2 x 18	17	10	1.70	2.8	0.15	Blue	White	Grey	500
Ct 007514	0.75	2 x 18	21	14	1.70	2.8	0.15	Blue	White	Grey	500
Ct 01.0008	1.00	2 x 18	15	8	1.95	3.4	0.15	Red	Yellow	Red	500
Ct 010010	1.00	2 x 18	17	10	1.95	3.4	0.15	Red	Yellow	Red	500
Ct 010012	1.00	2 x 18	19	12	1.95	3.4	0.15	Red	Yellow	Red	500
Ct 010018	1.00	2 x 18	25	18	1.95	3.4	0.15	Red	Yellow	Red	500
Ct 015008	1.50	2 x 16	16	8	2.20	3.6	0.15	Black	Red	Black	500
Ct 015012	1.50	2 x 16	20	12	2.20	3.6	0.15	Black	Red	Black	500
Ct 015018	1.50	2 x 16	26	18	2.20	3.6	0.15	Black	Red	Black	500
Ct 025010	2.50	2 x 14	18.5	10	2.80	4.2	0.20	Grey	Blue	Blue	250
Ct 025013	2.50	2 x 14	21.5	13	2.80	4.2	0.20	Grey	Blue	Blue	250
Ct 040012	4.00	2 x 12	23	12	3.70	4.9	0.20	Orange	Grey	Grey	100
Ct 060014	6.00	2 x 10	26	14	4.80	6.9	0.20	Green	Black	Yellow	100
Ct 1.00014	10.00	2 x 8	26	14	6.40	7.2	0.20	Brown	Cream	Red	100
Ct 160014	16.00	2 x 6	30	14	8.20	9.6	0.20	Cream	Green	Blue	50

6.3 Cable end-sleeve assortments

Insulated cable end-sleeves (400 pcs)



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Technical specifications

Brand	: WKK
Material	: Tin plated copper
Insulation material	: Polypropylene
Temperature range	: Up to +105 °C
Minimum coating thickness	: 3 µm
Approvals	: DIN 46228/4, CE

This assortment box is available in 3 color codes.

Type no.	Quantity
0.50 mm ² x 8 mm	50
0.75 mm ² x 8 mm	100
1.00 mm ² x 8 mm	100
1.50 mm ² x 8 mm	100
2.50 mm ² x 8 mm	50

Insulated cable end-sleeves (900 pcs)



Scan this QR code for article numbers, current prices and stock information and to order directly.

Technical specifications

Brand	: WKK
Material	: Tin plated copper
Insulation material	: Polypropylene
Temperature range	: Up to +105 °C
Minimum coating thickness	: 3 µm
Approvals	: DIN 46228/4, CE

This assortment box is available in 3 color codes.

Type no.	Quantity
0.50 mm ² x 8 mm	200
0.75 mm ² x 8 mm	200
1.00 mm ² x 8 mm	200
1.50 mm ² x 8 mm	200
2.50 mm ² x 8 mm	100

Crimp tool for cable end-sleeves, 0.25 - 2.5 mm²



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Technical specifications

Brand	: WKK
Art. no.	: 559218
Color	: Black / Grey
Crimp type	: Trapezoidal crimp
For ferrule type	: Insulated & uninsulated cable end-sleeves from 0.25 - 2.5 mm ² : Twin bootlace ferrules from 2 x 0.5 - 2 x 1.5 mm ²

Crimp tool for cable end-sleeves, 0.08 - 10 mm²



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Technical specifications

Brand	: WKK
Art. no.	: 5512218
Color	: Black / Grey
Crimp type	: Square crimp
For ferrule type	: Insulated & uninsulated cable end-sleeves from 0.08 - 10 mm ² : Twin bootlace ferrules from 2 x 0.5 - 2 x 4 mm ²

Crimp tool for cable end-sleeves, 0.08 - 16 mm²



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Technical specifications

Brand	: WKK
Art. no.	: 5514818
Color	: Black / Grey
Crimp type	: Hexagon crimp
For ferrule type	: Insulated & uninsulated cable end-sleeves from 0.08 - 16 mm ² : Twin bootlace ferrules from 2 x 0.5 - 2 x 6 mm ²



7. Other fixation materials



Corrugated tubing



Technical specifications

Brand	: WKK
Material quality	: Polypropylene & polyamide 6
Flammability class polypropylene	: UL 94 V-2
Flammability class polyamide 6	: UL 94 HB
Operating temperature polypropylene	: -40 °C up to +135 °C
Operating temperature polyamide 6	: -40 °C up to +120 °C
UV resistant	: Yes
Halogen-free	: Yes
Approvals	: IP69, IEC EN 61386, FMVSS302, RoHS, DIN75200
Available color	: Black



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Art.no.	Corrugated tubing type	Material quality	Nw / DN size	Inner diameter (mm)	Outer diameter (mm)	Bend radius (mm)	Length (mtr)
710133122816	Standard	Polypropylene	7.5	6.9	9.9	13	50
710133132816	Standard	Polypropylene	8.5	8.5	11.4	15	50
710133142816	Standard	Polypropylene	10.0	10.1	12.6	20	50
710133152816	Standard	Polypropylene	12.0	12.0	15.3	30	50
710133162816	Standard	Polypropylene	13.0	12.7	15.8	35	50
710133172816	Standard	Polypropylene	14.0	14.5	18.4	40	50
710133192816	Standard	Polypropylene	17.0	16.8	21.0	45	50
7101331102816	Standard	Polypropylene	22.0	21.8	25.5	50	50
7101331112816	Standard	Polypropylene	23.0	23.7	28.0	55	50
7101331162416	Standard	Polypropylene	26.0	25.7	32.2	60	25
7101331172416	Standard	Polypropylene	29.0	29.3	33.9	65	25
7101331182416	Standard	Polypropylene	36.0	33.8	41.6	90	25
7101331132416	Standard	Polypropylene	50.0	45.7	53.2	100	25

Art.no.	Corrugated tubing type	Material quality	Nw / DN size	Inner diameter (mm)	Outer diameter (mm)	Bend radius (mm)	Length (mtr)
710161122816	Standard	Polyamide 6	7.0	6.7	10.0	13	50
710161132816	Standard	Polyamide 6	8.5	8.4	11.7	15	50
710161142816	Standard	Polyamide 6	10.0	9.9	13.0	20	50
710161152816	Standard	Polyamide 6	12.0	12.2	15.7	30	50
710161162816	Standard	Polyamide 6	13.0	12.7	15.8	35	50
710161172816	Standard	Polyamide 6	14.0	14.2	18.5	40	50
710161192816	Standard	Polyamide 6	17.0	16.6	21.2	45	50
7101611152816	Standard	Polyamide 6	19.0	19.3	24.3	45	50
7101611102816	Standard	Polyamide 6	22.0	21.2	25.5	50	50
7101611112816	Standard	Polyamide 6	23.0	23.2	28.3	55	50
7101611162416	Standard	Polyamide 6	26.0	25.7	32.2	60	50
7101611172416	Standard	Polyamide 6	29.0	29.0	34.5	65	25
7101611182416	Standard	Polyamide 6	36.0	36.0	42.4	90	25
7101611132416	Standard	Polyamide 6	50.0	48.1	53.8	100	25

Corrugated tubing - Separable



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Technical specifications

Brand	: WKK
Material quality	: Polypropylene & polyamide 6
Flammability class polypropylene	: UL 94 V-2
Flammability class polyamide 6	: UL 94 HB
Operating temperature polypropylene	: -40 °C up to +135 °C
Operating temperature polyamide 6	: -40 °C up to +120 °C
UV resistant	: Yes
Halogen-free	: Yes
Approvals	: IP54, IEC EN 61386, RoHS, DIN75200
Available color	: Black

Art.no.	Corrugated tubing type	Material quality	Nw / DN size	Inner diameter (mm)	Outer diameter (mm)	Bend radius (mm)	Length (mtr)
7101333252816	Separable	Polypropylene	6.0	6.2	11.2	15	50
710133342816	Separable	Polypropylene	10.0	7.9	12.9	15	50
710133352816	Separable	Polypropylene	12.0	10.3	15.8	15	50
710133392816	Separable	Polypropylene	17.0	13.9	21.0	20	50
7101333112816	Separable	Polypropylene	23.0	20.5	28.3	20	50
7101333172416	Separable	Polypropylene	29.0	26.6	34.5	35	25
7101333182416	Separable	Polypropylene	36.0	32.0	41.8	40	25
7101333132416	Separable	Polypropylene	48.0	43.0	54.2	70	25

Art.no.	Corrugated tubing type	Material quality	Nw / DN size	Inner diameter (mm)	Outer diameter (mm)	Bend radius (mm)	Length (mtr)
7101133252816	Separable	Polyamide 6	6.0	6.2	11.2	15	50
710113342816	Separable	Polyamide 6	10.0	7.9	12.9	15	50
710113352816	Separable	Polyamide 6	12.0	10.3	15.8	15	50
710113392816	Separable	Polyamide 6	17.0	13.9	21.0	20	50
7101133112816	Separable	Polyamide 6	23.0	20.5	28.3	20	50
7101133172416	Separable	Polyamide 6	29.0	26.6	34.5	35	25
7101133182416	Separable	Polyamide 6	36.0	32.0	41.8	40	25
7101133132416	Separable	Polyamide 6	48.0	43.0	54.2	70	25

Corrugated tubing - Slotted



Technical specifications

Brand	: WKK
Material quality	: Polypropylene & polyamide 6
Flammability class polypropylene	: UL 94 V-2
Flammability class polyamide 6	: UL 94 HB
Operating temperature polypropylene	: -40 °C up to +135 °C
Operating temperature polyamide 6	: -40 °C up to +120 °C
UV resistant	: Yes
Halogen-free	: Yes
Approvals	: IP68, IEC EN 61386, FMVSS302, RoHS, DIN75200
Available color	: Black

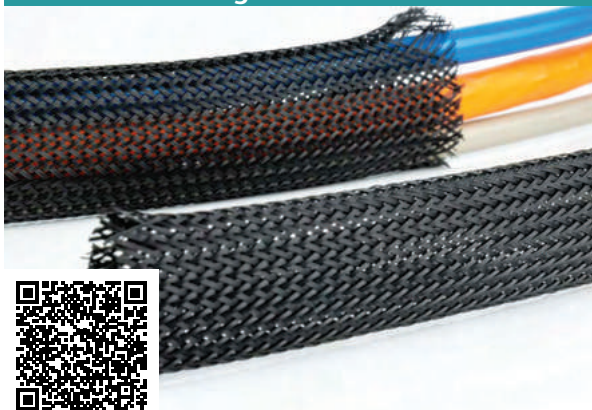


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Art.no.	Corrugated tubing type	Material quality	Nw / DN size	Inner diameter (mm)	Outer diameter (mm)	Bend radius (mm)	Length (mtr)
710133222816	Slotted	Polypropylene	7.5	6.9	9.9	13	50
710133232816	Slotted	Polypropylene	8.5	8.5	11.4	15	50
710133242816	Slotted	Polypropylene	10.0	10.1	12.6	20	50
710133252816	Slotted	Polypropylene	12.0	12.0	15.3	30	50
710133262816	Slotted	Polypropylene	13.0	12.7	15.8	35	50
710133272816	Slotted	Polypropylene	14.0	14.5	18.4	40	50
710133292816	Slotted	Polypropylene	17.0	16.8	21.0	45	50
7101332102816	Slotted	Polypropylene	22.0	21.8	25.5	50	50
7101332112816	Slotted	Polypropylene	23.0	23.7	28.0	55	50
7101332162416	Slotted	Polypropylene	26.0	25.7	32.2	60	25
7101332172416	Slotted	Polypropylene	29.0	29.3	33.9	65	25
7101332182416	Slotted	Polypropylene	36.0	33.8	41.6	90	25
7101332132416	Slotted	Polypropylene	50.0	45.7	53.2	100	25

Art.no.	Corrugated tubing type	Material quality	Nw / DN size	Inner diameter (mm)	Outer diameter (mm)	Bend radius (mm)	Length (mtr)
710161222816	Slotted	Polyamide 6	7.0	6.7	10.0	13	50
710161232816	Slotted	Polyamide 6	8.5	8.4	11.7	15	50
710161242816	Slotted	Polyamide 6	10.0	9.9	13.0	20	50
710161252816	Slotted	Polyamide 6	12.0	12.2	15.7	30	50
710161262816	Slotted	Polyamide 6	13.0	12.7	15.8	35	50
710161272116	Slotted	Polyamide 6	14.0	14.2	18.5	40	50
710161292116	Slotted	Polyamide 6	17.0	16.6	21.2	45	50
7101612152816	Slotted	Polyamide 6	19.0	19.3	24.3	45	50
7101612102816	Slotted	Polyamide 6	22.0	21.2	25.5	50	50
7101612112816	Slotted	Polyamide 6	23.0	23.2	28.3	55	50
7101612162416	Slotted	Polyamide 6	26.0	25.7	32.2	60	50
7101612172416	Slotted	Polyamide 6	29.0	29.0	34.5	65	25
7101612122416	Slotted	Polyamide 6	36.0	36.0	42.4	90	25
7101612132416	Slotted	Polyamide 6	50.0	48.1	53.8	100	25

Braided Sleeving - Box



Technical specifications

Brand	: WKK
Material quality	: Polyester PET HB
Flammability class polyamide 6	: UL 94 HB
Operating temperature	: -50 °C up to +150 °C
Approvals	: RoHS, Reach
Available colors	: Black, grey on request



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Art.no.	Nominal diameter (mm)	Expanded diameter (mm)	Length (mtr)
77104622	3	6	100
77204622	4	8	100
77304622	5	10	100
771304622	6	12	100
77404622	8	16	100
77504622	10	20	100
77604622	12	24	100
77704622	15	30	100
77804722	20	35	50
77904722	25	45	50
771004722	30	50	50
771104722	40	70	50
771204822	50	80	25

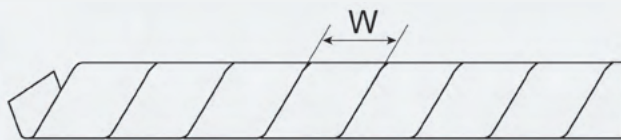


Spiral wrapping band



Technical specifications

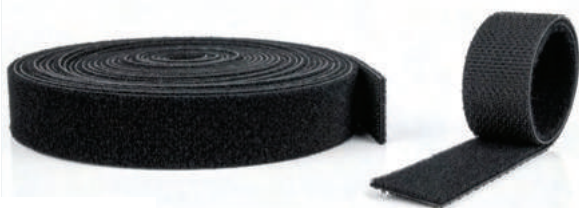
Brand : WKK
 Material quality : HDPE
 Operating temperature : -40 °C up to +60 °C
 Available colors : Natural, black



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Art.no.	Inner diameter (mm)	Outer diameter (mm)	Length (mtr)	W (mm)	Bundle diameter (mm)	Color
7810212	5.0	6	10	8.0	4.0 - 50.0	Black
7819212	5.0	6	10	8.0	4.0 - 50.0	Natural
7820212	7.0	8	10	11.0	6.0 - 60.0	Black
7829212	7.0	8	10	11.0	6.0 - 60.0	Natural
7830212	8.5	10	10	13.5	7.5 - 60.0	Black
7839212	8.5	10	10	13.5	7.5 - 60.0	Natural
7840212	10.5	12	10	15.0	9.0 - 65.0	Black
7849212	10.5	12	10	15.0	9.0 - 65.0	Natural
7850212	13.2	15	10	18.0	12.0 - 70.0	Black
7859212	13.2	15	10	18.0	12.0 - 70.0	Natural
7860212	16.8	19	10	23.0	15.0 - 100.0	Black
7869212	16.8	19	10	23.0	15.0 - 100.0	Natural
7870212	21.6	24	10	27.0	20.0 - 130.0	Black
7879212	21.6	24	10	27.0	20.0 - 130.0	Natural

Hook and loop tape - Back-to-back



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Technical specifications

Brand	: WKK
Material quality base	: Synthetic resin
Material quality hook	: Nylon
Material quality loop	: Polyester
Operating temperature	: -40 °C up to +60 °C
Peel off strength	: 600g±5%
Available color	: Black

Art.no.	Width (mm)	Length (mtr)
79110247	12	25
79120247	20	25
79130247	25	25
79140247	50	25

Universal clamps



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Technical specifications

Brand	: WKK
Material quality	: Nylon
Operating temperature	: -25 °C up to +115 °C
Fixation	: Screw hole
Halogen-free	: Yes
Approvals	: RoHS, Reach, CE
Available colors	: Grey, natural

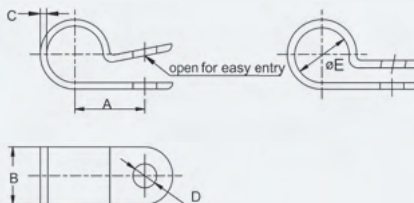
Art.no.	Ø (mm)	Color	PU (pcs.)
741863	16.0 - 22.0	Grey	50
741963	16.0 - 22.0	Natural	50
742863	25.0 - 28.0	Grey	50
742963	25.0 - 28.0	Natural	50

Cable clamps



Technical specifications

Brand : WKK
 Material quality : Polyamide 6.6
 Flammability class : UL 94 V-2
 Operating temperature : -40 °C up to +85 °C
 Available color : Natural



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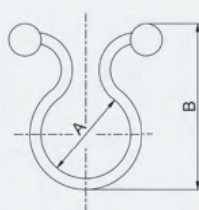
Art.no.	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	PU (pcs.)
7321972	3.3	8.2	9.1	1.27	Ø 5.4 for M5	100
7331972	4.8	9.6	9.1	1.27	Ø 5.4 for M5	100
7340972	5.9	11.4	12.7	1.5	Ø 5.4 for M5	100
7351972	6.6	10.3	9.1	1.27	Ø 5.4 for M5	100
7370972	9.1	13.4	12.1	1.5	Ø 5.4 for M5	100
7381972	9.7	11.9	9.2	1.27	Ø 5.4 for M5	100
7390972	12.2	15.0	12.7	1.5	Ø 5.4 for M5	100
73100972	13.8	15.8	12.7	1.5	Ø 5.4 for M5	100
73110972	18.6	19.8	12.7	1.5	Ø 5.4 for M5	100

Twistlocks



Technical specifications

Brand : WKK
 Material quality : Polyamide 6.6
 Flammability class : UL 94 V-2
 Operating temperature : -40 °C up to +85 °C
 Available color : Natural



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Art.no.	A (mm)	B (mm)	Bundle diameter (mm)	PU (pcs.)
7229112	5.2	21.0	4.5	1.000
7239112	8.3	25.2	7.3	1.000
7219112	11.2	28.4	10.2	1.000
7249112	11.5	30.9	10.5	1.000
7259112	15.0	35.1	14.0	1.000

Cable clips with nail



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Technical specifications

Brand	: WKK
Material quality	: Thermoplastic
Operating temperature	: -25 °C up to +90 °C
Halogen-free	: Yes
Approvals	: RoHS, Reach, CE
Available colors	: Natural, grey, white, cream : Black on request

Art.no.	Clip Ø (mm)	=L x Ø (mm)	Color	PU (pcs.)
7611173	5.0 - 7.0	20 x 2.0	White	100
7621173	8.0 - 10.0	25 x 2.0	White	100
762873	8.0 - 10.0	25 x 2.0	Grey	100
7631173	11.0 - 15.0	35 x 2.0	White	100
763873	11.0 - 15.0	35 x 2.5	Grey	100
7641363	16.0 - 19.0	40 x 2.5	Cream	50
764863	16.0 - 19.0	40 x 2.5	Grey	50
764963	16.0 - 19.0	40 x 2.5	Natural	50
765963	23.0 - 29.0	40 x 2.5	Natural	50

Plug clips - Single



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Technical specifications

Brand	: WKK
Material quality	: HDPE
Operating temperature	: -40 °C up to +90 °C
UV resistant	: Yes
Halogen-free	: Yes
Available color	: Natural

Art.no.	Ø (mm)	PU (pcs.)
751974	16.0 - 19.0	100
752974	20.0 - 25.0	100
753974	25.0 - 30.0	100

Double sided foam tapes



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Technical specifications

Brand	: WKK
Material quality	: Polyethylene
Adhesive	: Acrylic
Adhesive strength	: 19.6 N/25 mm
Temperature resistance (°C)	: -40 up to +120 °C
Solvent resistant	: Yes
Chemical resistant	: Yes
UV resistant	: Yes
Humidity resistant	: Yes
Available color	: White

Art.no.	Width (mm)	Thickness (mm)	Length (mtr)
7131112810	12	1.1	50
7132112810	15	1.1	50
7133112810	19	1.1	50
7134112810	25	1.1	50

WKK - PVC tapes



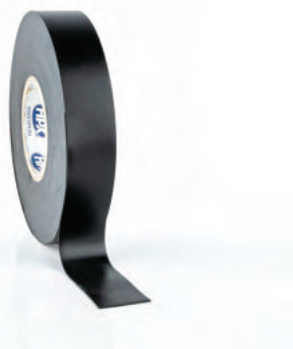
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Technical specifications

Brand	: HPX
Adhesive	: Rubber
Carrier:	: PVC
Adhesive strength	: 4 N/25 mm
Temperature resistance (°C)	: +80 °C
Flame retardant	: Yes
Available colors	: Black=● Blue=● Yellow=● Green=● : Red=● White=○ Grey=● Yellow/green=● : Mixed colors in a 10-pack (10 mtr x 19 mm)

Type no.	Width (mm)	Thickness (mm)	Length (mtr)
Tape PVC 15/10	15	0.15	10
Tape PVC 19/10	19	0.15	10
Tape PVC 19/20	19	0.15	20
Tape PVC 50/10	50	0.15	10

Self amalgamating tapes



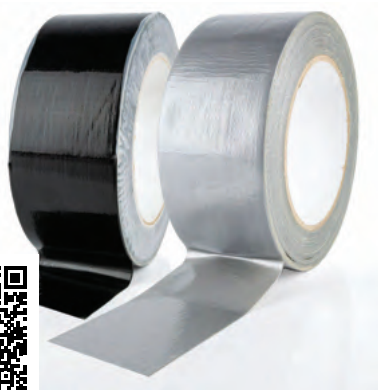
Technical specifications

Adhesive : Rubber
 Adhesive strength : 2 N/mm² (0.2kg)
 Temperature resistance (°C) : +90 °C
 Available color : Black

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Art.no.	Width (mm)	Thickness (mm)	Length (mtr)
714102110	19	0.5	10
714202110	25	0.5	10
714302110	38	0.5	10
714402110	50	0.5	10

Duct tapes



Technical specifications

Brand : WKK
 Adhesive : Rubber
 Carrier : Polyester / linen weavings with Polyethylene coating
 Temperature resistance (°C) : +65 °C
 Available colors : Silver, black

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Art.no.	Width (mm)	Thickness (mm)	Color	Length (mtr)
711182410	50	0.25	Silver	25
711102410	50	0.25	Black	25





Validity of our terms

These terms apply to all offers and agreements, however they may be named, agreed to or concluded with third parties. Any variations to these terms, including purchasing agreements, and endorsed by a third party, will not be considered binding. Our terms will always prevail.

Offers

All offers are without any binding obligation net/net and exclusive of Value Added Tax, unless specifically stated otherwise and or based on approved drawings provided by either party relating to the said offer. All data mentioned in printed matter provided by us is not legally binding.

The responsibility for the right application and the suitability of the matter offered for the required application by the party to whom is offered, lies with the latter. Samples of small items such as cable ties, terminals, cable end-sleeves etc. are supplied complimentary for testing purposes and quality checks.

Agreements

Agreements, in any form and including amendments, only become binding upon written confirmation by us reflecting agreed details and the way that acceptance was reached. Acceptance as defined here can only be endorsed by a member of the management team or one of our staff members who has right of proxy.

Prices

We exercise the right to charge the current prices on the day of delivery. This also applies to backorders. All prices mentioned during promotional campaigns, in our catalogue, leaflets or any other type of advertising material, are net/net and exclusive the Value Added Tax. We reserve the right:

- in case of agreements with a person who does not act in the capacity of a trade or represent a company, to charge any or all price increases and or levy imposed by government legislation if it occurs within the first 3 months of commencement of this agreement.
- in case of legal entities or entity acting in a professional capacity or legally representing a company, to charge such an entity any or all price increases due.

Delivery, delivery times and partial deliveries

Delivery conditions are always in conformation with the offer or as accepted by agreement. The seller has the right to charge extra costs incurred by following the special instructions of the buyer, e.g. "dispatch by express or special transport".

Delivery times:

- Delivery times are indicative and will never be guaranteed.
- Non-compliance to the delivery time gives the buyer, a natural person not following a trade or representing a company, only the right to claim compensation and or cancellation of the agreement if the statutory requirements have been met.
- Non-compliance to the delivery time does not give the buyer, in the capacity of a legal entity or entities, the right to claim compensation and or dissolution of the agreement.

Part delivery:

We reserve the right to deliver an order in parts. The buyer is compelled to pay the applicable invoices in compliance with our terms of payment.

Extended ownership

The goods delivered remain in our ownership until the purchaser has fully paid the amounts due in relation to the delivered goods, inclusive of possible interest charges and derived costs. The risk of loss or damage pertaining to purchased goods is transferred to the buyer at point of delivery or otherwise confirmed in writing. The buyer is not entitled to dispose of the goods, in any form, or allow third parties the use of them before payment has been received in full. In case of failure to meet its payment obligations, the buyer is obliged to return the goods on first demand, and to co-operate fully to enable us to exercise our rights.

Packaging

The selling price is, unless otherwise agreed, inclusive of the packaging costs. The form of packaging is decided by us. Packing can not be returned. Extra or different packaging requirements as stipulated by the buyer will be charged additionally.

Transport and transport damage

The method of transportation is decided by us. Should the buyer require a different method of transport, than the one decided by us, additional costs can be charged to the buyer. If the packaging or the goods appear to be damaged on arrival, the buyer is obliged to lodge or countersign an official report with the forwarder before accepting the goods and should send at least one copy of the report to us within forty-eight hours.

Claims

Claims can only be entertained by us, if they have been received in writing and correctly addressed, within 14 days of the said delivery taking place.

Return of goods

Goods can only be returned after written permission from us. The risk of loss or damage to the goods remains with the buyer unless otherwise agreed by us in writing.

Payment

Payment for the goods shall be made in full, unless otherwise agreed in writing, directly to us within thirty days of the date of invoice and without any unauthorised deductions. In so far as payment has not taken place within thirty days after the date of invoice, we have the right to charge the purchasing party interest on the amount due from due date, being 2% a month or part thereof as well as charge all relating judicial and extra-judicial collection costs incurred by us. The extra-judicial collection costs are 15% of the amount on invoice with a reserve of 125,- Euro each invoice. We reserve the right to deliver C.O.D. (cash on delivery). We always deliver C.O.D. to buyers who are unknown to us, unless references can be supplied timely indicating a solid financial position. If a credit granted to a buyer gets too high in our opinion, we reserve the right to demand payment before we execute new orders or part orders.

Warranty

We supply a warranty with our goods in so far as and for that part that we were able to obtain a warranty from our suppliers. This remains subject to the goods delivered being faulty and we will at all times have the choice to replace or repair of the goods or parts thereof. We reserve the right in those cases to take back the goods or parts thereof and credit the buyer accordingly. Our warranty cannot be invoked for faults or malfunctions that are incurred as a consequence of force from outside, poor maintenance, overload, natural wear and tear or other causes beyond our control. Slight technical deviations in color, structure of the material or finish, common and/or inevitable to the trade, are not covered by the warranty and do not oblige us to any form of compensation and do not give the buyer the right to refuse delivery of the goods or refuse payment of the goods delivered.

Liability/force majeure

Paragraph 1:

We do not accept liability, in cases of force majeure or circumstances that hinder the usual continuance in our company - e.g. for non-delivery or overdue delivery by our suppliers, lack of labour force, strike or exclusion of staff etc. - and which render us temporarily or permanently incapable to fulfil the contract(s), irrespective whether the circumstances mentioned were foreseeable or not at the time of the conclusion of the contract. In cases of force majeure or the circumstances here described we can suspend the execution of the orders, until the force majeure or the circumstances here described cease to exist. Alternatively we reserve the right to annul the agreement entirely or partially, in so far as it has not been executed, without any judicial intervention.

Paragraph 2:

In cases of agreements with natural persons who do not act in the capacity of a trade or representing a company, our liability, subject to the stipulation in paragraph 3, never reaches beyond our statutory liability. In cases of agreements with legal entities who officially represent a trade or a company, our liability, subject to the stipulation in paragraph 3, never reaches further than the amount of the order.

Paragraph 3:

In all cases we exclude consequential damage, except in cases where it's proven to be a matter of intentional act or gross negligence on our part and only then to the maximum as referred to in paragraph 2. For personal damage as a consequence of a faulty product we are only liable in so far as we are producer or EC importer and only as far as our statutory liability.

Paragraph 4:

If, in spite of the liability as set out in this article, we are called upon with regards to the execution of this agreement, the client or buyer shall indemnify us entirely, inclusive of all costs that are subsequently incurred due to us being held liable.

Failure in fulfilment

If the buyer fails to meet his obligations properly or does not comply with any obligation arising from the agreement in time, including bankruptcy, suspension of payment or liquidation of the company, he is considered to be in default by operation of law and we have the right to suspend the agreements concluded with the buyer without further notification of default and without judicial intervention or to dissolve the agreement entirely or partially without incurring subsequent liabilities. In the case of dissolving the agreement we are entitled to take back delivered and unpaid goods as our property without prejudice to our right of compensation.

Disputes

Paragraph 1:

Dutch law is applicable to agreements that are subjected to these terms, irrespective of international trade regulations.

Paragraph 2:

All disputes arising from such agreements with the buyer, will:

- In case of a dispute, as referred to aforementioned with a legal entity representing a trade or a company, it will be settled exclusively by the competent Court of law residing in the district of Breda The Netherlands and without prejudice to our right to start an action against the other party in a statutory competent Court.
- In case of a dispute, as referred to aforementioned with an other party being a natural person, not representing a trade or a company, it will be settled in a statutory competent Court residing in The Netherlands and under Dutch law.

WKK Nederland B.V. is entitled to change these general terms and conditions.
The last filed version of these terms and conditions will be applicable.

Filed at the Chamber of Commerce in Tilburg under number 1232

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