HELUKABEL®

HELUTOP®

For every application the correct cable gland

www.helukabel.de

Welcome at HELUKABEL®

Headquarters Hemmingen

The Logistic Centre Hemmingen

Cables & Wires

Special Cables

Cable Accessories

Data, Network & Bus Technology

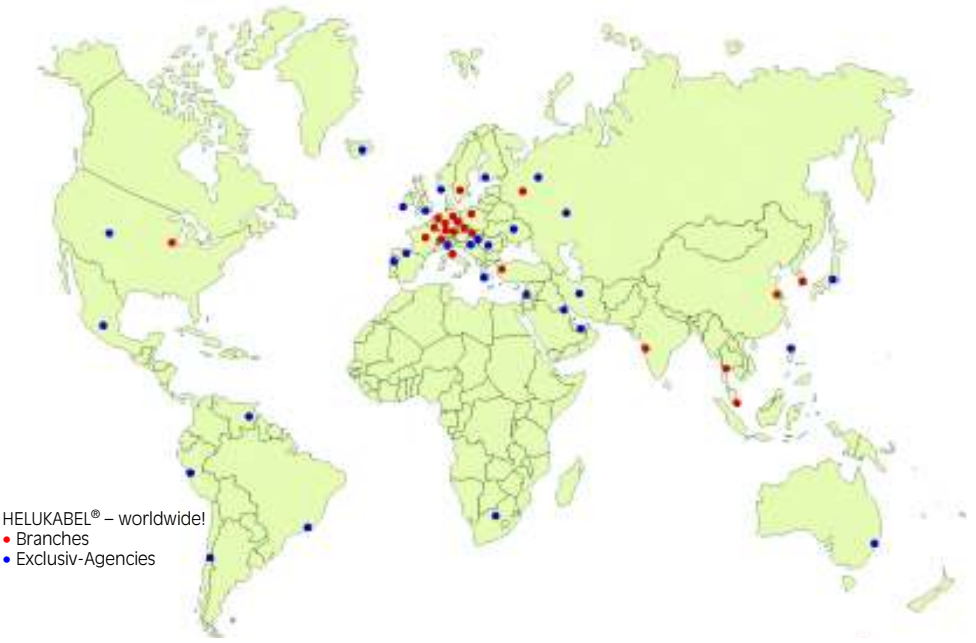
Media Technology

Robotics

Today, HELUKABEL® GmbH is one of Germany's leading cable companies, boasting an extensive range of cables, wires, special cables, media technology and wires, as well as cable accessories and data, networks and bus technology.

We design, manufacture and supply for all markets and for all applications. Our extensive warehouse stock, containing over 33.000 articles, enables us to deliver your order within extremely short times.

The catalogue provides a full overview of all products in our HELUTOP® cable gland range. We continuously update our wide range to keep abreast of market requirements. Our internal and fields service team is happy to provide you with assistance in finding the best solution for your needs.



HELUKABEL® – worldwide!
- Branches
- Exclusiv-Agencies

Table of contents, cable glands

Our general terms and conditions of sale and payment are valid, visible at www.helukabel.de.

General information

Basic functions of a cable gland

Transferring cables and wires

- Power (electricity)
- Signals and data (current, voltage, light)

Cable protection

If a wire is to be connected in a housing, the housing must have a protective lead-through. Otherwise there is a danger that the wire will become damaged in case of movement.

Strain relief

A wire always moves to a greater or lesser extent – both during installation, and in long-term use. It is important to protect it against tensile loads. The movements may be either constant or intermittent. For this reason, a cable gland with strain relief is necessary.
Strain reliefs are described in EN 50262. A distinction is made between retention, strain relief A and strain relief B. Generally, cable glands have strain relief A.

Protection classification

The lead-through in the wall of the housing must be sealed. This is described by ingress protection IP. The cable glands presented here have protection classification IP 68 – 5 bar. The 6 stands for "No dust penetration", while the 8 stands for "Protected when permanently submerged in water" – this is tested at a water pressure of 5 bar (corresponds to 50 m water depth) for a duration of 30 min.

Seal with insert

A seal is compressed by tightening the cap nut. A particularly high quality seal and strain relief are achieved.

Sealing with clamping plates

When the cap nuts are screwed tight, lamellae press against the moulded seal – the wire is thereby sealed and the strain is relieved. The particular advantage of the clamping lamellae is that they make a large clamping range possible, to allow for different wire diameters.

Resistance

Different applications demand different degrees of resistance.
Plastic cable glands made from polyamide can be used at a temperature range of between -30 °C and +80 °C. They are abrasion- and impact resistant as well as being resistant against hydrocarbons/fuels and cleaning agents.
Stainless steel glands are suitable for heavy-duty use– they are waterproof and resistant to a large number of disinfectants used in food production.
Brass glands are used when a long-lasting metal gland is required. Cable glands for EMC applications are also made from brass (EMC = Electro-magnetic Compatibility).

Compact design

- No disassembly during final assembly. Simply loosening the cap nuts is sufficient.
- No losing components
- Quick assembly

Standard EN 50262

Cable glands are produced and tested according to the standard EN 50262. This stipulates the dimensions of the connection threads ("metric threaded connection") as well as a series of safety-relevant parameters, e.g. strain relief. Cable glands are also available with another threaded connection (PG, NPT, etc.).

RoHS

Directive 2002/95/EC defines environment-relevant standards for electrical and electronic components and devices. This is known as RoHS for short: „Restriction of the use of certain hazardous substances in electrical and electronic equipment". The use of heavy metals (lead, cadmium, etc.) and a number of other hazardous substances is forbidden.

Installation notes

No disassembly

Disassembly of the glands HELUTOP® are not necessary – provided that the cap nut is applied in such a way as to allow smooth running, there is no problem with subsequent insertion of the cable.

Screwing in

When screwing, observe the necessary tightening torque. If only one through-hole without thread is available, a lock nut must be used.

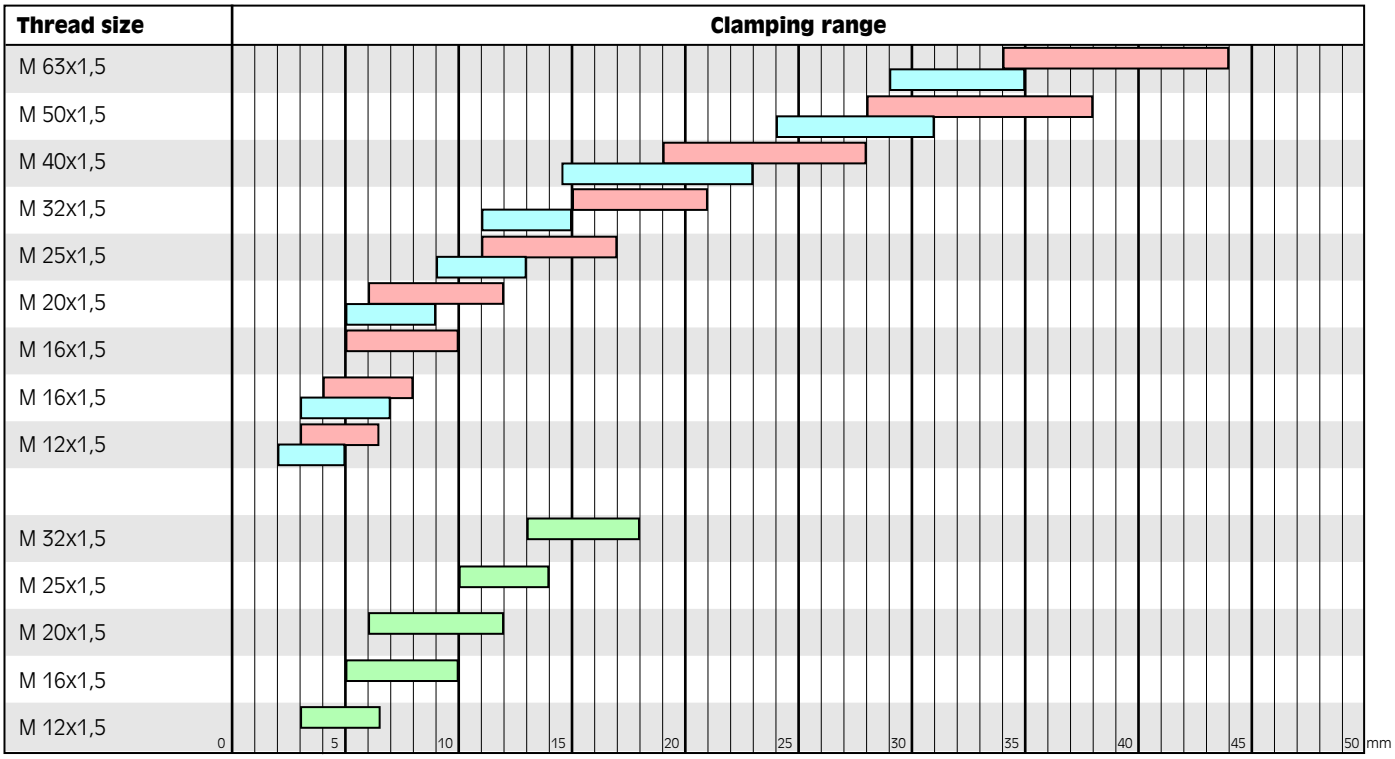
Protection classification

In order to achieve the desired protection classification even when working with an unfavourable surface, it may be necessary to use an O-ring or a connection thread gasket. To ensure a consistently high-quality seal, we recommend re-tightening the gland some time after assembly.

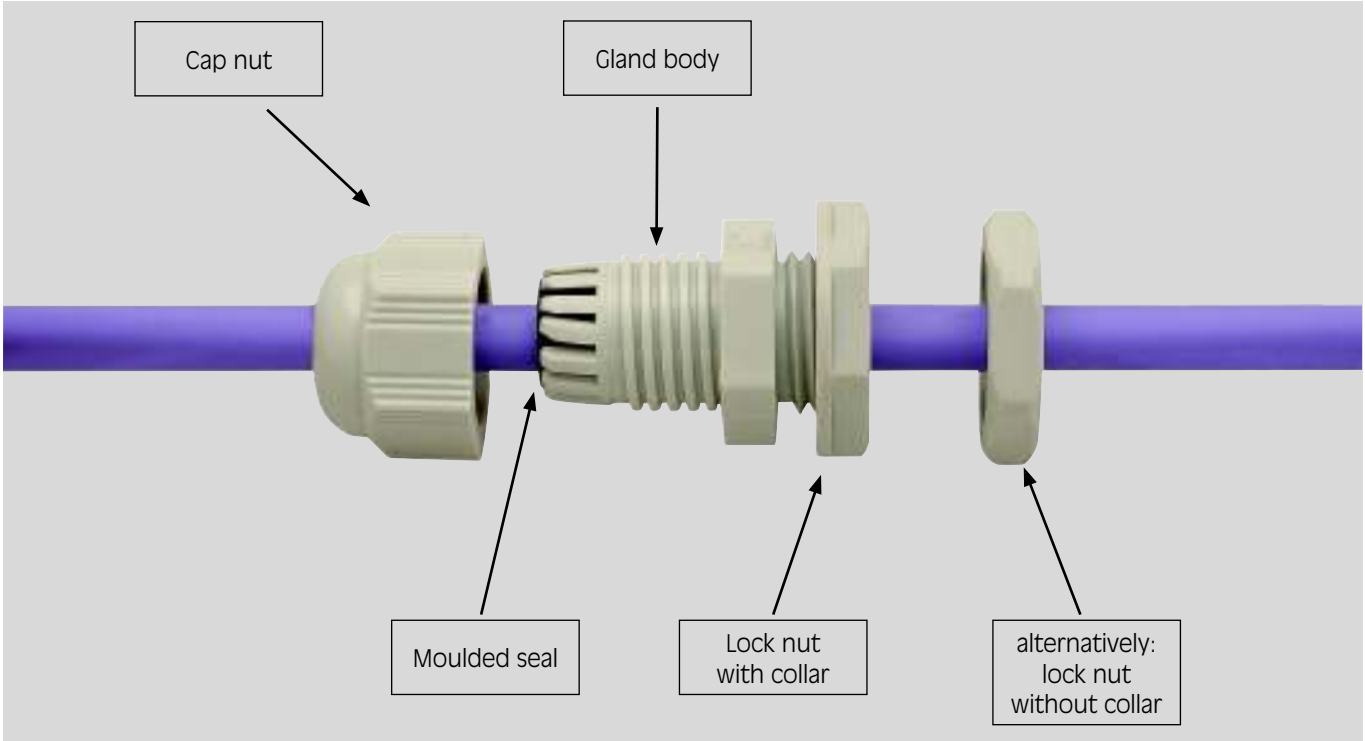
Lead through cable – turn cap nut – that's all there is to it!

Clamping ranges HELUTOP® HT

	Gland type		
Polyamide Polyamide, with pre-assembled blind plug Stainless steel Brass Brass, for EMC applications	HELUTOP® HT HELUTOP® HT-BS HELUTOP® HT-E HELUTOP® HT-MS HELUTOP® MS-EP	HELUTOP® HT-R HELUTOP® HT-MS-R	HELUTOP® HT-K
Thread size	**Standard**	**reduced sealing**	**with anti-kink protection**
M 12x1,5	3,0 - 6,5 mm	2,0 - 5,0 mm	3,0 - 6,5 mm
M 16x1,5	4,0 - 8,0 mm	3,0 - 7,0 mm	
M 16x1,5	5,0 - 10,0 mm		5,0 - 10,0 mm
M 20x1,5	6,0 - 12,0 mm	5,0 - 9,0 mm	6,0 - 12,0 mm
M 25x1,5	11,0 - 17,0 mm	9,0 - 13,0 mm	10,0 - 14,0 mm
M 32x1,5	15,0 - 21,0 mm	11,0 - 15,0 mm	13,0 - 18,0 mm
M 40x1,5	19,0 - 28,0 mm	14,5 - 23,0 mm	
M 50x1,5	28,0 - 38,0 mm	24,0 - 31,0 mm	
M 63x1,5	34,0 - 44,0 mm	29,0 - 35,0 mm	



Plastic cable glands



Cable gland

Cap nut and gland body are made of polyamide PA6 in the following colours:
- light grey RAL 7035
- dark grey RAL 7001
- black RAL 9005.

Polyamide PA6 is abrasion- and impact resistant, and resistant against hydrocarbons/fuels and cleaning agents. It is tried-and-tested as a material for cable glands in standard applications.

The moulded seal is made from neoprene.

The cable glands HELUTOP® HT are fitted with vibration protection for secure attachment in mobile applications.

Lock nut

The lock nuts with or without collar are made from polyamide PA6.

Accessories

Accessories suitable for use with the plastic cable glands:
- Lock nuts
- Adapters
- Enlarger
- Reducers

Accessories suitable for use with all HELUTOP® cable glands:
- Sealing plugs
- Multiple sealing inserts / lock bolts
- O-rings
- Connection thread gaskets
- Blind plates

HELUTOP® HT (Polyamide)

HELUTOP® HT
The plastic cable gland with vibration protection

Properties
- Optimum strain relief through clamping plates
- Easy to assemble
- Large clamping areas

Material
- halogen-free
- phosphor-free
- silicone-free
- cadmium-free

Polyamide PA 6
UV-resistant (RAL 9005)
Seal: Neoprene

Technical data
Protection classification : IP 68 - 5 bar

Temperature range: -30°C up to +80°C

Test standard: EN50262

Note
Details on the international standards see page 34.

metric thread

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
93908	93923	93937	M 12 x 1,5	3,0 - 6,5	8,0	15	100	o. r.	o. r.	o. r.
93909	93924	93938	M 16 x 1,5	4,0 - 8,0	8,0	19	50	o. r.	o. r.	o. r.
92667	92668	92669	M 16 x 1,5	5,0 - 10,0	10,0	22	50	o. r.	o. r.	o. r.
93910	93925	93939	M 20 x 1,5	6,0 - 12,0	10,0	24	50	o. r.	o. r.	o. r.
93911	93926	93940	M 25 x 1,5	11,0 - 17,0	8,0	29	50	o. r.	o. r.	o. r.
93912	93927	93941	M 32 x 1,5	15,0 - 21,0	10,0	36	25	o. r.	o. r.	o. r.
93913	93928	93942	M 40 x 1,5	19,0 - 28,0	10,0	46	20	o. r.	o. r.	o. r.
93914	93929	93943	M 50 x 1,5	28,0 - 38,0	18,0	60	10	o. r.	o. r.	o. r.
93915	93930	93944	M 63 x 1,5	34,0 - 44,0	18,0	65	10	o. r.	o. r.	o. r.

metric thread – with reducing seal

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
903532	903542	903552	M 12 x 1,5	2,0 - 5,0	8,0	15	100	o. r.	o. r.	o. r.
903533	903543	903553	M 16 x 1,5	3,0 - 7,0	10,0	22	50	o. r.	o. r.	o. r.
903534	903544	903554	M 20 x 1,5	5,0 - 9,0	10,0	24	50	o. r.	o. r.	o. r.
903535	903545	903555	M 25 x 1,5	9,0 - 13,0	8,0	29	50	o. r.	o. r.	o. r.
903536	903546	903556	M 32 x 1,5	11,0 - 15,0	10,0	36	25	o. r.	o. r.	o. r.
903537	903547	903557	M 40 x 1,5	14,5 - 23,0	10,0	46	20	o. r.	o. r.	o. r.
903538	903548	903558	M 50 x 1,5	24,0 - 31,0	18,0	60	10	o. r.	o. r.	o. r.
903539	903549	903559	M 63 x 1,5	29,0 - 35,0	18,0	65	10	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

HELUTOP® HT-BS (with dust protection)

HELUTOP® HT-BS
The plastic cable gland with vibration protection and pre-assembled dust protection

Properties
- Optimum strain relief through clamping plates
- Easy to assemble
- Large clamping areas

Material
- halogen-free
- phosphor-free
- silicone-free
- cadmium-free

Polyamide PA 6
UV-resistant (RAL 9005)
Seal: Neoprene

Dust protection: foam rubber

Technical data
Protection classification : IP 68 - 5 bar

Temperature range: -30°C up to +80°C

Test standard: EN50262

Note
Details on the international standards see page 34.

Part no. light grey RAL 7035	Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
94530	94531	94541	M 16 x 1,5	5,0 - 10,0	10,0	22	50	o. r.	o. r.	o. r.
94551	94532	94542	M 20 x 1,5	6,0 - 12,0	10,0	24	50	o. r.	o. r.	o. r.
94552	94533	94543	M 25 x 1,5	11,0 - 17,0	8,0	29	50	o. r.	o. r.	o. r.
94553	94534	94544	M 32 x 1,5	15,0 - 21,0	10,0	36	25	o. r.	o. r.	o. r.
94554	94535	94545	M 40 x 1,5	19,0 - 28,0	10,0	46	20	o. r.	o. r.	o. r.
94555	94536	94546	M 50 x 1,5	28,0 - 38,0	18,0	60	10	o. r.	o. r.	o. r.
94556	94537	94547	M 63 x 1,5	34,0 - 44,0	18,0	65	10	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

HELUTOP® HT-K (bent protection)

HELUTOP® HT-K
With anti-kink spirals for movable, flexible lines.

Properties
- Optimum strain relief through clamping plates
- Easy to assemble

Material
- halogen-free
- phosphor-free
- silicone-free
- cadmium-free

Polyamide PA 6
UV-resistant (RAL 9005)
Seal: Neoprene

Technical data
Protection classification : IP 68 - 5 bar

Temperature range: -30°C up to +80°C

Test standard: EN50262

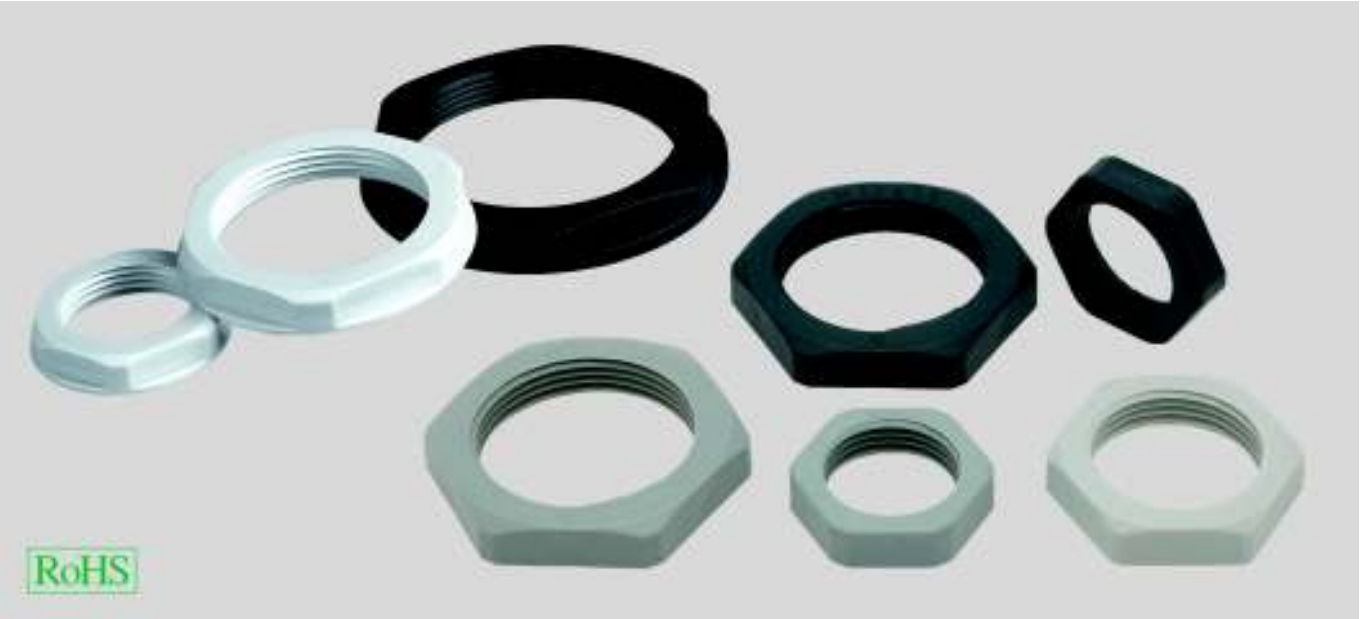
Note
Details on the international standards see page 34.

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
93867	93856	93878	M 12 x 1,5	3,0 - 6,5	8,0	15	50	o. r.	o. r.	o. r.
93868	93857	93879	M 16 x 1,5	5,0 - 10,0	10,0	22	50	o. r.	o. r.	o. r.
93869	93858	93880	M 20 x 1,5	6,0 - 12,0	10,0	24	50	o. r.	o. r.	o. r.
93870	93859	93881	M 20 x 1,5	10,0 - 14,0	10,0	27	25	o. r.	o. r.	o. r.
93871	93860	93882	M 25 x 1,5	13,0 - 18,0	10,0	33	20	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Counternut KMK-PA



KMK-PA MB

The counternut made of polyamide.
The counternut with collar has a bigger sealing area - sealing with an additional O-ring will be simplified.

Material

- halogen-free
- silicone-free
- phosphor-free
- cadmium-free

Polyamide PA 6
UV-resistant (RAL 9005)

Technical data

Temperature range: -40°C up to +100°C

KMK-PA-MB
Counternut with collar

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size Metr.	Thread length mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
97816	94260	98163	M 12 x 1,5	18	100	o. r.	o. r.	o. r.
97817	94261	98164	M 16 x 1,5	22	100	o. r.	o. r.	o. r.
97818	94262	98165	M 20 x 1,5	26	100	o. r.	o. r.	o. r.
97819	94263	98166	M 25 x 1,5	32	100	o. r.	o. r.	o. r.
97820	94264	98167	M 32 x 1,5	41	100	o. r.	o. r.	o. r.
97821	94265	98168	M 40 x 1,5	50	50	o. r.	o. r.	o. r.
97822	94266	98169	M 50 x 1,5	60	50	o. r.	o. r.	o. r.
97823	94267	98170	M 63 x 1,5	75	25	o. r.	o. r.	o. r.

KMK-PA-OB
Counternut without collar

Part no. light grey RAL 7035	Part no. dark grey RAL	Part no. black RAL 9005	Size Metr.	Thread length mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
94630	94640	94650	M 12 x 1,5	18	100	o. r.	o. r.	o. r.
94631	94641	94651	M 16 x 1,5	22	100	o. r.	o. r.	o. r.
94632	94642	94652	M 20 x 1,5	26	100	o. r.	o. r.	o. r.
94633	94643	94653	M 25 x 1,5	32	100	o. r.	o. r.	o. r.
94634	94644	94654	M 32 x 1,5	41	100	o. r.	o. r.	o. r.
94635	94645	94655	M 40 x 1,5	50	50	o. r.	o. r.	o. r.
94636	94646	94656	M 50 x 1,5	60	50	o. r.	o. r.	o. r.
94637	94647	94657	M 63 x 1,5	75	25	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Adapter PA

Adapter PA
The adapter made of polyamide for solving problems when converting from PG to metric.

Material
- halogen-free
- silicone-free
- phosphor-free
- cadmium-free

Polyamide

Colours: light grey
RAL: 7035

Technical data
Temperature range: -40°C up to +100°C

Part no.	Size PG outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
93650	7	M 12 x 1,5	100	o. r.	o. r.	o. r.
93651	7	M 16 x 1,5	100	o. r.	o. r.	o. r.
93652	9	M 12 x 1,5	100	o. r.	o. r.	o. r.
93653	9	M 16 x 1,5	100	o. r.	o. r.	o. r.
93654	9	M 20 x 1,5	100	o. r.	o. r.	o. r.
93655	11	M 16 x 1,5	100	o. r.	o. r.	o. r.
93656	11	M 20 x 1,5	100	o. r.	o. r.	o. r.
93657	13,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
93658	13,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
93659	13,5	M 25 x 1,5	100	o. r.	o. r.	o. r.
93660	16	M 20 x 1,5	100	o. r.	o. r.	o. r.
93661	16	M 25 x 1,5	100	o. r.	o. r.	o. r.
93662	21	M 25 x 1,5	50	o. r.	o. r.	o. r.
93663	21	M 32 x 1,5	50	o. r.	o. r.	o. r.
93664	29	M 32 x 1,5	50	o. r.	o. r.	o. r.
93665	29	M 40 x 1,5	50	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Enlargement EW-PA, Reducer RE-PA

EW-PA

The extender made of polyamide.
Transition from small to large thread.

Material

- halogen-free
- phosphor-free
- silicone-free
- cadmium-free

Polyamide

Colours: light grey
RAL: 7035

Technical data

Temperature range: -40°C up to +100°C

Part no.	Size metric outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
98585	M 12 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
98586	M 16 x 1,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
95099	M 20 x 1,5	M 25 x 1,5	100	o. r.	o. r.	o. r.
98587	M 25 x 1,5	M 32 x 1,5	50	o. r.	o. r.	o. r.
98588	M 32 x 1,5	M 40 x 1,5	50	o. r.	o. r.	o. r.
98589	M 40 x 1,5	M 50 x 1,5	25	o. r.	o. r.	o. r.

RE PA

The reducer made of polyamide.
Transition from large to small thread.

Material

- halogen-free
- phosphor-free
- silicone-free

Polyamide

Colours: light grey
RAL: 7035

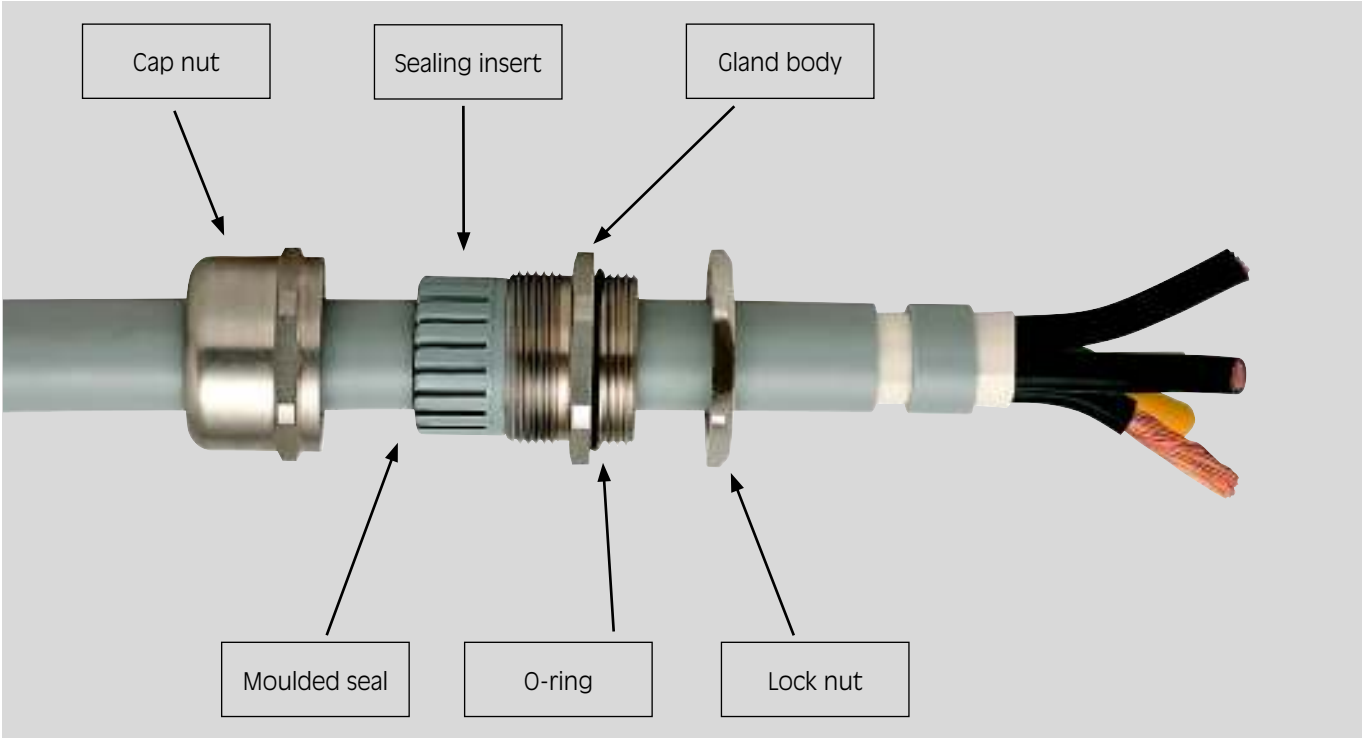
Technical data

Temperature range: -30°C up to +100°C

Part no.	Size metric outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
97829	M 20 x 1,5	M 12 x 1,5	100	o. r.	o. r.	o. r.
97830	M 20 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
97831	M 25 x 1,5	M 12 x 1,5	100	o. r.	o. r.	o. r.
97832	M 25 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
97833	M 25 x 1,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
97834	M 32 x 1,5	M 12 x 1,5	50	o. r.	o. r.	o. r.
97835	M 32 x 1,5	M 16 x 1,5	50	o. r.	o. r.	o. r.
97836	M 32 x 1,5	M 20 x 1,5	50	o. r.	o. r.	o. r.
97837	M 32 x 1,5	M 25 x 1,5	50	o. r.	o. r.	o. r.
97838	M 40 x 1,5	M 16 x 1,5	50	o. r.	o. r.	o. r.
97839	M 40 x 1,5	M 20 x 1,5	50	o. r.	o. r.	o. r.
97840	M 40 x 1,5	M 25 x 1,5	50	o. r.	o. r.	o. r.
97841	M 40 x 1,5	M 32 x 1,5	50	o. r.	o. r.	o. r.
97842	M 50 x 1,5	M 20 x 1,5	25	o. r.	o. r.	o. r.
97843	M 50 x 1,5	M 25 x 1,5	25	o. r.	o. r.	o. r.
97844	M 50 x 1,5	M 32 x 1,5	25	o. r.	o. r.	o. r.
97845	M 50 x 1,5	M 40 x 1,5	25	o. r.	o. r.	o. r.
97846	M 63 x 1,5	M 25 x 1,5	25	o. r.	o. r.	o. r.
97847	M 63 x 1,5	M 32 x 1,5	25	o. r.	o. r.	o. r.
97848	M 63 x 1,5	M 40 x 1,5	25	o. r.	o. r.	o. r.
97849	M 63 x 1,5	M 50 x 1,5	25	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

Stainless steel cable glands



Cable gland

Cap nut and gland body are made from stainless steel.
Due to their high degree of corrosion resistance and longevity, these glands are suitable for tough conditions:
- Heavy chemical loads
- Cleaning agents (e.g. in the food industry)
- Weather-resistant when used outdoors.

The terminal insert is made from polyamide PA6.

The moulded seal is made from neoprene.

The O-ring is made from Buna-N

Lock nut

The lock nuts are made from stainless steel.

Accessories

Accessories suitable for use with the stainless steel cable glands:
- Lock nuts

Accessories suitable for use with all cable glands:
- Sealing plugs
- Multiple sealing inserts / lock bolts
- O-rings
- Connection thread gaskets
- Blind plates

HELUTOP® HT-E (stainless steel)

HELUTOP® HT-E
The stainless steel cable gland for heavy load

Properties
- Optimum strain relief through clamping plates
- Highly corrosion-resistant
- Highly durable
- Easy to assemble
- Large clamping areas

Material
Stainless steel 1.4305
Clamp: Polyamide PA 6
Seal: Neoprene
O-ring: Buna-N

Technical data
Protection classification : IP 68 - 5 bar

Temperature range: -40°C up to +100°C

Test standard: EN50262

Note
Details on the international standards see page 34.

Part no.	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
99980	M 12 x 1,5	3,0 - 6,5	6,0	14	50	o. r.	o. r.	o. r.
99981	M 16 x 1,5	5,0 - 10,0	7,0	20	50	o. r.	o. r.	o. r.
99982	M 20 x 1,5	6,0 - 12,0	8,0	22	50	o. r.	o. r.	o. r.
99983	M 25 x 1,5	11,0 - 17,0	8,0	27	25	o. r.	o. r.	o. r.
99984	M 32 x 1,5	15,0 - 21,0	8,0	34	20	o. r.	o. r.	o. r.
99985	M 40 x 1,5	19,0 - 28,0	9,0	43	10	o. r.	o. r.	o. r.
99986	M 50 x 1,5	28,0 - 38,0	9,0	58	5	o. r.	o. r.	o. r.
99987	M 63 x 1,5	34,0 - 44,0	14,0	64/68	5	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Counternut KM-INOX (stainless steel)

KM INOX
The counternut made of stainless steel.

Material
Stainless steel 1.4305

Technical data
Temperature range: up to +200°C

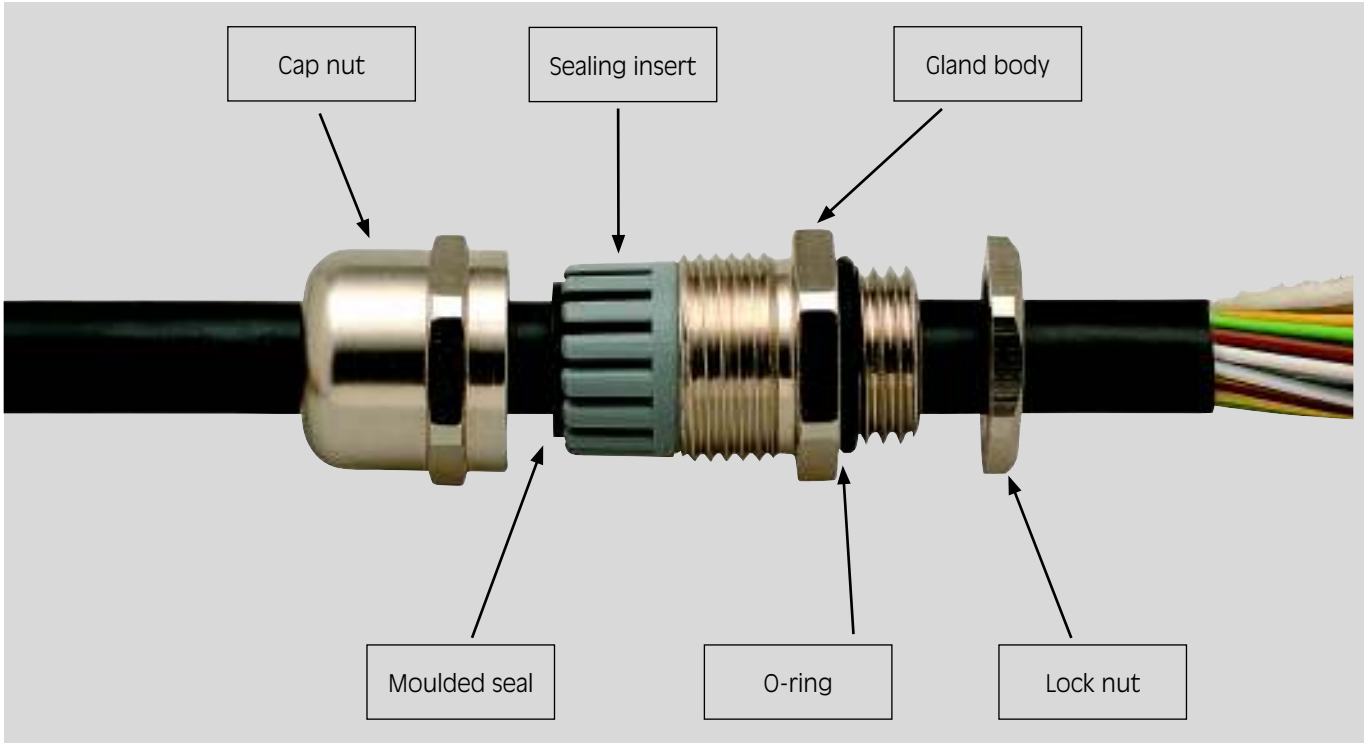
KM INOX
Counternut made of stainless steel

Part no.	Size Metr.	Thread length mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
920605	M 12 x 1,5	15	50	o. r.	o. r.	o. r.
920606	M 16 x 1,5	19	50	o. r.	o. r.	o. r.
920607	M 20 x 1,5	24	50	o. r.	o. r.	o. r.
920608	M 25 x 1,5	30	50	o. r.	o. r.	o. r.
920609	M 32 x 1,5	36	50	o. r.	o. r.	o. r.
920610	M 40 x 1,5	46	25	o. r.	o. r.	o. r.
920611	M 50 x 1,5	60	25	o. r.	o. r.	o. r.
920612	M 63 x 1,5	70	10	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Brass cable glands



Cable gland

Cap nut and gland body are made from nickel-plated brass.
These glands are used for those standard applications where metal glands are needed.

The terminal insert is made from polyamide PA6.

The moulded seal is made from neoprene.

The O-ring is made from Buna-N.

Lock nut

The lock nuts are made from nickel-plated brass.

Accessories

Accessories suitable for use with the brass cable glands:
- Lock nuts
- Adapters
- Enlarger
- Reducers

Accessories suitable for use with all cable glands:
- Sealing plugs
- Multiple sealing inserts / lock bolts
- O-rings
- Connection thread gaskets
- Blind plates

HELUTOP® HT-MS (brass)

HELUTOP® HT-MS
The nickel-coated brass cable gland.

Properties
- Optimum strain relief through clamping plates
- Easy to assemble
- Large clamping areas

Material
Brass, nickel plated
Clamp: Polyamide PA 6
Seal: Neoprene
O-ring: Buna-N

Technical data
Protection classification : IP 68 - 5 bar

Temperature range: -40°C up to +100°C

Test standard: EN50262

Note
Details on the international standards see page 34.

metric thread

Part no.	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
90760	M 12 x 1,5	3,0 - 6,5	6,0	14	50	o. r.	o. r.	o. r.
99960	M 16 x 1,5	5,0 - 10,0	7,0	20	50	o. r.	o. r.	o. r.
90762	M 20 x 1,5	6,0 - 12,0	8,0	22	50	o. r.	o. r.	o. r.
99961	M 25 x 1,5	11,0 - 17,0	8,0	27	25	o. r.	o. r.	o. r.
94624	M 32 x 1,5	15,0 - 21,0	8,0	34	20	o. r.	o. r.	o. r.
99962	M 40 x 1,5	19,0 - 28,0	9,0	43	10	o. r.	o. r.	o. r.
99963	M 50 x 1,5	28,0 - 38,0	9,0	58	5	o. r.	o. r.	o. r.
90767	M 63 x 1,5	34,0 - 44,0	14,0	64/68	5	o. r.	o. r.	o. r.

metric thread - with reduced seal insert

Part no.	Size Metr.	Cable-Ø from / to mm	Thread length mm	Spanner size mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
903560	M 12 x 1,5	2,0 - 5,0	6,0	14	50	o. r.	o. r.	o. r.
903561	M 16 x 1,5	3,0 - 7,0	7,0	20	50	o. r.	o. r.	o. r.
903562	M 20 x 1,5	5,0 - 9,0	8,0	22	50	o. r.	o. r.	o. r.
903563	M 25 x 1,5	9,0 - 13,0	8,0	27	25	o. r.	o. r.	o. r.
903564	M 32 x 1,5	11,0 - 15,5	8,0	34	20	o. r.	o. r.	o. r.
903565	M 40 x 1,5	14,5 - 23,0	9,0	43	10	o. r.	o. r.	o. r.
903566	M 50 x 1,5	24,0 - 31,0	9,0	58	5	o. r.	o. r.	o. r.
903567	M 63 x 1,5	29,0 - 35,0	14,0	64/68	5	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Counternut KM (brass)

KM
The counternut from nickel-coated brass.

Material
Brass, nickel plated

Technical data
Temperature range: up to +200°C

KM
Counternut made of nickel-coated brass

Part no.	Size Metr.	Thread length mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
90175	M 12 x 1,5	15	100	o. r.	o. r.	o. r.
90176	M 16 x 1,5	19	100	o. r.	o. r.	o. r.
90177	M 20 x 1,5	24	100	o. r.	o. r.	o. r.
90178	M 25 x 1,5	30	100	o. r.	o. r.	o. r.
90179	M 32 x 1,5	36	100	o. r.	o. r.	o. r.
90180	M 40 x 1,5	46	50	o. r.	o. r.	o. r.
90181	M 50 x 1,5	60	25	o. r.	o. r.	o. r.
90182	M 63 x 1,5	70	10	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Adapter (brass)

Adapter hexagonal, brass
Hexagonal adapters made by brass for solving the transition from PG to metric thread.

Material
Brass, nickel plated

Technical data
Temperature range: up to +200°C

hexagonal

Part no.	Size PG outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
904327	13,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
904328	16	M 20 x 1,5	50	o. r.	o. r.	o. r.
904329	21	M 25 x 1,5	50	o. r.	o. r.	o. r.
904330	29	M 32 x 1,5	25	o. r.	o. r.	o. r.
904331	36	M 40 x 1,5	10	o. r.	o. r.	o. r.

hexagonal - high-profile design

Part no.	Size PG outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
904332	7	M 12 x 1,5	100	o. r.	o. r.	o. r.
904333	9	M 16 x 1,5	100	o. r.	o. r.	o. r.
904334	11	M 16 x 1,5	100	o. r.	o. r.	o. r.
904335	13,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
904336	16	M 20 x 1,5	50	o. r.	o. r.	o. r.
904337	16	M 25 x 1,5	50	o. r.	o. r.	o. r.
904338	21	M 25 x 1,5	50	o. r.	o. r.	o. r.
904339	21	M 32 x 1,5	50	o. r.	o. r.	o. r.
904340	29	M 40 x 1,5	25	o. r.	o. r.	o. r.
904341	36	M 50 x 1,5	10	o. r.	o. r.	o. r.
904342	42	M 63 x 1,5	5	o. r.	o. r.	o. r.

round

Part no.	Size PG outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
904374	11	M 20 x 1,5	100	o. r.	o. r.	o. r.
904375	13,5	M 20 x 1,5	100	o. r.	o. r.	o. r.

round - high-profile design

Part no.	Size PG outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
904376	9	M 16 x 1,5	100	o. r.	o. r.	o. r.
904377	11	M 20 x 1,5	100	o. r.	o. r.	o. r.
904378	13,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
904379	16	M 25 x 1,5	50	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Enlarger EW, Reducer RE (brass)

EW

The extender made of brass. Transition from small to large thread.

Material

Brass, nickel plated

Technical data

Temperature range: up to +200°C

round

Part no.	Size metric outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
94064	M 12 x 1,5	M 16 x 1,5	50	o. r.	o. r.	o. r.
94066	M 16 x 1,5	M 20 x 1,5	50	o. r.	o. r.	o. r.
94069	M 20 x 1,5	M 25 x 1,5	50	o. r.	o. r.	o. r.
94072	M 25 x 1,5	M 32 x 1,5	50	o. r.	o. r.	o. r.
94075	M 32 x 1,5	M 40 x 1,5	50	o. r.	o. r.	o. r.
94078	M 40 x 1,5	M 50 x 1,5	25	o. r.	o. r.	o. r.
94081	M 50 x 1,5	M 63 x 1,5	10	o. r.	o. r.	o. r.

RE

The reducer made of brass. Transition from large to small thread.

Material

Brass, nickel plated

Technical data

Temperature range: up to +200°C

hexagonal

Part no.	Size metric outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
904380	M 16 x 1,5	M 12 x 1,5	100	o. r.	o. r.	o. r.
904381	M 20 x 1,5	M 12 x 1,5	100	o. r.	o. r.	o. r.
904382	M 20 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
904383	M 25 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
904384	M 25 x 1,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
94073	M 32 x 1,5	M 20 x 1,5	25	o. r.	o. r.	o. r.
94946	M 32 x 1,5	M 25 x 1,5	50	o. r.	o. r.	o. r.
94076	M 40 x 1,5	M 25 x 1,5	25	o. r.	o. r.	o. r.
90909	M 40 x 1,5	M 32 x 1,5	25	o. r.	o. r.	o. r.
904385	M 50 x 1,5	M 32 x 1,5	10	o. r.	o. r.	o. r.
90865	M 50 x 1,5	M 40 x 1,5	10	o. r.	o. r.	o. r.
94947	M 63 x 1,5	M 40 x 1,5	5	o. r.	o. r.	o. r.
904386	M 63 x 1,5	M 50 x 1,5	5	o. r.	o. r.	o. r.

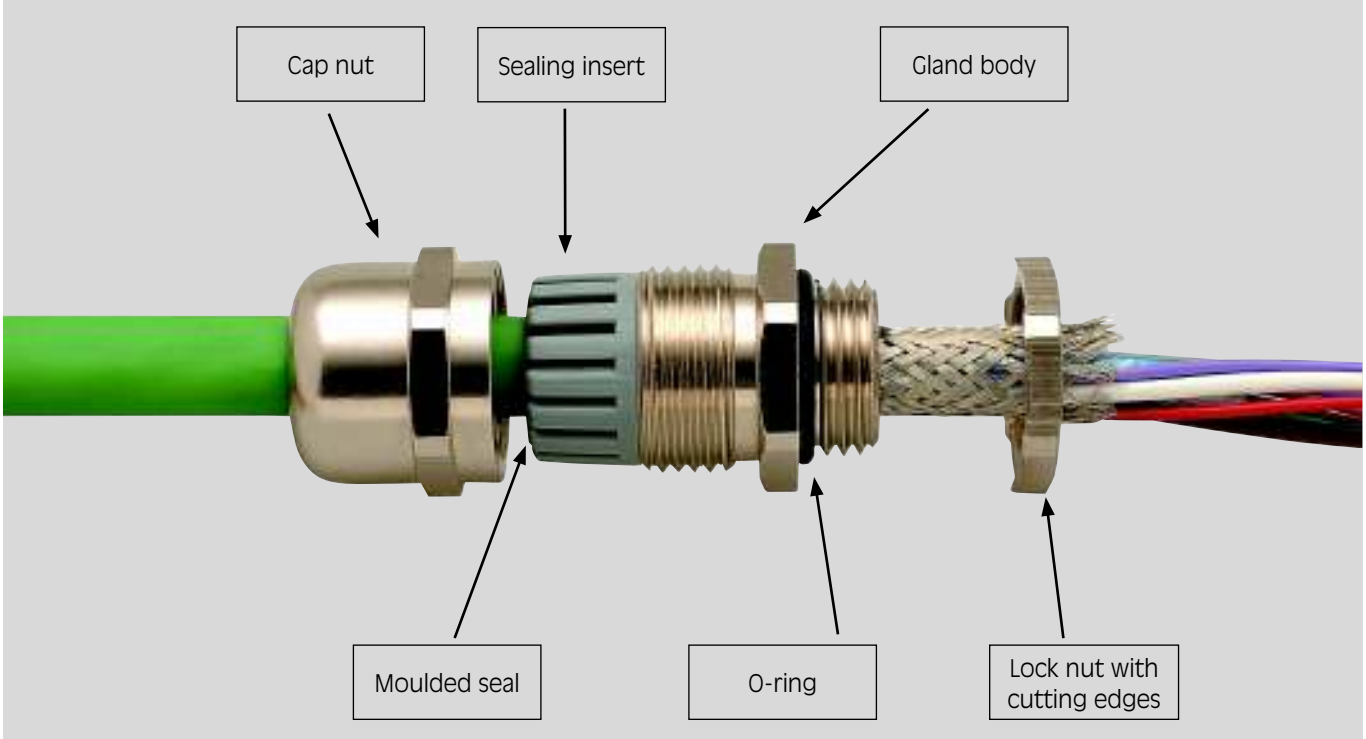
round

Part no.	Size metric outer	Size metric inner	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
94065	M 16 x 1,5	M 12 x 1,5	100	o. r.	o. r.	o. r.
94067	M 20 x 1,5	M 12 x 1,5	100	o. r.	o. r.	o. r.
94068	M 20 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
94070	M 25 x 1,5	M 16 x 1,5	100	o. r.	o. r.	o. r.
904407	M 25 x 1,5	M 20 x 1,5	100	o. r.	o. r.	o. r.
904408	M 32 x 1,5	M 20 x 1,5	50	o. r.	o. r.	o. r.
94074	M 32 x 1,5	M 25 x 1,5	50	o. r.	o. r.	o. r.
904409	M 40 x 1,5	M 25 x 1,5	10	o. r.	o. r.	o. r.
94077	M 40 x 1,5	M 32 x 1,5	10	o. r.	o. r.	o. r.
94079	M 50 x 1,5	M 32 x 1,5	10	o. r.	o. r.	o. r.
94080	M 50 x 1,5	M 40 x 1,5	10	o. r.	o. r.	o. r.
94082	M 63 x 1,5	M 40 x 1,5	10	o. r.	o. r.	o. r.
94083	M 63 x 1,5	M 50 x 1,5	10	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Cable glands for electromagnetic compatibility (EMC)



Cable gland

These cable glands are used in high-quality EMC applications.

Cap nut and gland body are made from nickel-plated brass.

The contact springs form a safe and reliable contact with the screened braiding of the cable. They are made from copper-beryllium – this material ensures a good conductivity and a strong spring force in the long term. The spring ring is movable prior to the cap nut being tightened – damage to the screened braiding during assembly is thus prevented.

The terminal insert is made from polyamide PA6.

The moulded seal is made from neoprene.

The O-ring is made from Buna-N.

Lock nut

The lock nuts are made from nickel-plated brass. They have cutting edges for cutting through coated surfaces.

Accessories

Accessories suitable for use with the brass cable glands:
- Lock nuts

Accessories suitable for use with all cable glands:
- Sealing plugs
- O-rings
- Connection thread gaskets
- Blind plates

Electromagnetic compatibility

The subject of electromagnetic compatibility covers everything connected with intentional and unintentional malfunctions in electrical operating materials caused by electrical, magnetic or electromagnetic fields and processes.

Technically, a distinction is made between “conducted” and “non-conducted” faults:
Conducted faults are transferred directly from the source of the fault to the sink via feeder or signal lines.
Non-conducted faults are coupled with the sink by means of an electromagnetic field, i.e. as electromagnetic radiation, and are received there by a wire functioning as an antenna.

Faults should not occur

In the European **EMC Directive,** electromagnetic compatibility is defined as follows:
The ability of a device, unit of equipment or system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to any device, unit of equipment or system in that environment.

The energy supply companies and the EU legislator require that manufacturers of electrical devices adhere to appropriate “protection requirements”.
In Germany, the Electromagnetic Compatibility Act applies. The EMC Directive is generally applied in conjunction with the Low Voltage Directive.

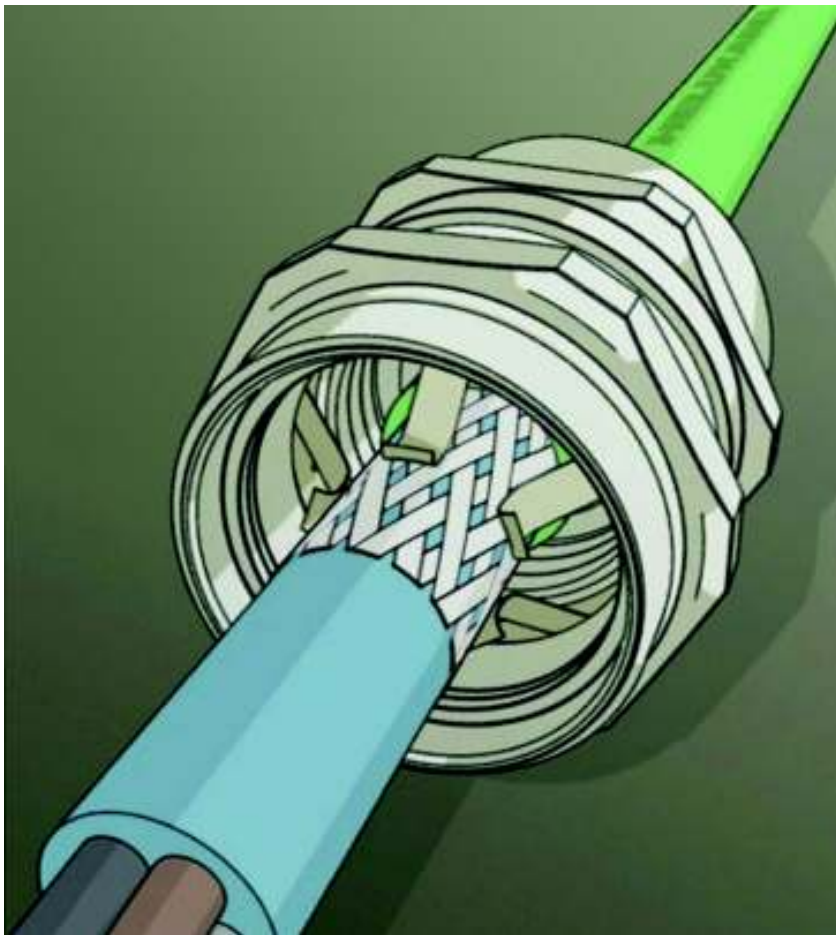
Important components for preventing faults

Screened cables:
The screen over the inner sheath of the cable is designed to keep out external disturbances and keep in internally-generated disturbances.

Sheet shielding or
Screened braiding – a coverage of more than 85% is considered necessary.

Electromagnetic compatibility

EMC glands:
The screen of the cable is contacted with the housing of the control / motor via appropriate cable glands.



If the screen is applied at both ends, then one has the additional benefit of potential equalisation at both ends, and effective screening. Here it should be ensured that the two grounds are not different, otherwise a flow of disturbing equalising currents could occur.

The contact in the gland is generally created by means of a contact spring. This gives a good contact but also allows rapid assembly. Our HELUTOP® MS-EP has a simultaneously-rotating spring ring. Provided that the cable is not yet fixed, it is still possible to turn the cable in the gland. Only when it is fixed by turning the cap nut is the screen contact also finally fixed.

Most important accessories: Lock nut with cutting edges. Painted, anodised or contaminated surfaces are cut through by the cutting edges and the contact between the cable gland and the housing is thereby securely made.

HELUTOP® MS-EP EMC cable gland

HELUTOP® MS-EP

The EMC- and earthing gland with integrated contact system for safe, quick assembly and contacting.

Application

- Plant and machine construction
- Robot construction
- Automation technology
- Vehicle construction and shipbuilding
- Rail technology
- Installation technology
- Control cabinet construction

Material

Brass, nickel plated
Contact system: Copper-Beryllium
Clamp: Polyamide PA 6
Seal: Chloroprene-rubber (CR)
O-ring: NBR

Properties

- Optimum strain relief through clamping plates
- No damage of shield during assembly or disassembly by moving contact ring
- Contact made automatically when the gland is closed
- Excellent shield damping and current deflection
- High savings achieved in time and assembly costs

Note

Details on the individual tests appear in section "Technical Information".

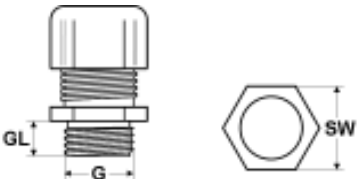
Technical data

Protection class: IP 68 - 5 bar

Temperature range: -40°C up to +100°C

Test standard: EN50262

Contact system: patented



Dimensions

G	Thread size
GL	Thread length
SW	Spanner size

metric thread

Part no.	Size Metr.	Cable Ø from / to mm	Thread length mm	Spanner size mm	Unit	
99950	M12 x 1,5	3,0 - 6,5	6,0	14	50	-
99951	M16 x 1,5	5,0 - 10,0	7,0	20	50	-
99952	M20 x 1,5	6,0 - 12,0	8,0	22	50	-
99953	M25 x 1,5	11,0 - 17,0	8,0	27	25	-
99954	M32 x 1,5	15,0 - 21,0	8,0	34	10	-
99955	M40 x 1,5	19,0 - 28,0	9,0	43	5	-
99956	M50 x 1,5	27,0 - 38,0	9,0	58	5	-
99957	M63 x 1,5	34,0 - 44,0	14,0	64 / 68	5	-

Dimensions and specifications may be changed without prior notice.

02.05.2017 / Dimensions and specifications may be changed without prior notice.

Counternut KM-EMV

KM-EMV

- The counternut with cutting edges for secure fixing of EMC cable glands
- for cutting through painted surfaces to ensure optimum contact with equipotential bonding
- increased vibration resistance.

Material

Brass, nickel coated

Technical data

Temperature range: up to +200°C

Part no.	Size Metr.	Thread length mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
90165	M 12 x 1,5	15	100	o. r.	o. r.	o. r.
90166	M 16 x 1,5	19	100	o. r.	o. r.	o. r.
90167	M 20 x 1,5	24	100	o. r.	o. r.	o. r.
90168	M 25 x 1,5	30	100	o. r.	o. r.	o. r.
90169	M 32 x 1,5	36	100	o. r.	o. r.	o. r.
90170	M 40 x 1,5	46	50	o. r.	o. r.	o. r.
90171	M 50 x 1,5	60	25	o. r.	o. r.	o. r.
90172	M 63 x 1,5	70	10	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request


M16X1.5

Accessories for cable glands

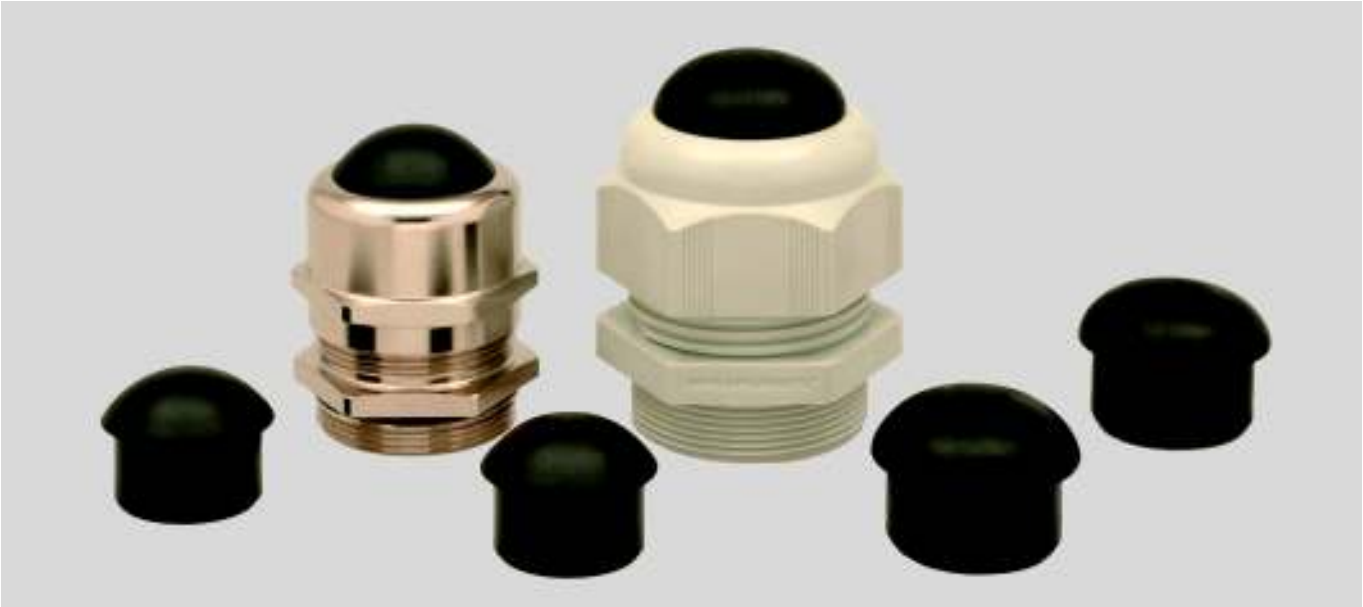
Accessories suitable to the various materials/applications:

	Cable gland types made from			
	Plastic	**Stainless steel**	**Brass**	**Brass for EMC**
Lock nut	KMK-PA-MB, with collar KMK-PA-OB, without collar, page 9	KM-INOX page 15	KM page 19	KM-EMV page 27
Adapter	Adapter PA page 10	-	Adapter, brass page 20	(non-typical: adapter, brass)
Enlarger	EW-PA page 11	-	EW page 21	(non-typical: EW)
Reducer	RE-PA page 11	-	RE page 21	(non-typical: RE)

Accessories suitable for use with all HELUTOP® cable glands:

	Cable gland types made from			
	Plastic	**Stainless steel**	**Brass**	**Brass for EMC**
Sealing plug	Sealing plug HT page 31			
Multiple sealing insert / lock bolt		HT-MFDE lock bolt page 31		(non-typical)
O-Ring	O-Ring page 32			
Threaded connection gasket	AGDR-PE page 32			
Blind plate	BL-H, hard BL-W, soft page 33			

HELUTOP® sealing inserts



HELUTOP® sealing inserts

Protection tab for sealing of empty cable glands HELUTOP® HT.

Application

- Plant and machine construction
- Robot construction
- Automation technology
- Vehicle construction and shipbuilding
- Rail technology
- Installation technology
- Control cabinet construction

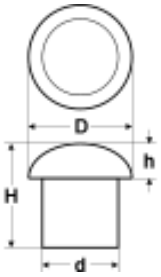
Material

Polyamide 6

Colours: black

Note

*Protection tab 903492 only for cable glands type HT and HT-MS with clamping range 5-10mm.



Dimensions

D	Outer diameter head
d	Outer diameter insert
H	Height total
h	Height head

Part no.	Size metric/ PG	Clamping area from/up to mm	Outer Ø head mm	Outer Ø insert mm	Height total mm	Height head mm	Unit	
905924	M16/ PG7	3,0 - 6,5	9,2	6,4	11,0	4,0	100	-
905925	M16	4,0 - 8,0	10,5	8,0	16,0	5,0	100	-
903492*	M16	5,0 - 10,0	13,3	9,7	20,7	5,7	100	-
903493	M20	6,0 - 12,0	15,8	12,0	18,0	8,0	100	-
905928	M20/ PG16	10,0 - 14,0	18,0	13,6	18,7	8,7	100	-
903494	M25	11,0 - 17,0	19,9	16,4	18,3	7,3	100	-
905929	M25/ PG21	13,0 - 18,0	22,2	17,8	21,0	9,7	100	-
903495	M32	15,0 - 21,0	24,1	20,4	21,2	9,2	100	-
903496	M40	19,0 - 28,0	32,0	27,5	25,0	9,0	100	-

Dimensions and specifications may be changed without prior notice.

17.03.2017 / Dimensions and specifications may be changed without prior notice.

Multiple sealing inserts HT-MFDE / Sealing billets

HELUTOP® HT-MFDE
for HT gland shells

Material
NBR

Colours: black

Technical data
Temperature range: -20°C up to +100°C

Part no.	Size metric	Insert colour	Number x Ø borehole mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
920102*	M 16 x 1,5	black	2x 4,0	50	o. r.	o. r.	o. r.
903575*	M 16 x 1,5	black	2x 4,5	50	o. r.	o. r.	o. r.
920104	M 20 x 1,5	black	2x 6,0	50	o. r.	o. r.	o. r.
920105	M 20 x 1,5	black	3x 4,0	50	o. r.	o. r.	o. r.
920106	M 20 x 1,5	black	3x 5,0	50	o. r.	o. r.	o. r.
920109	M 20 x 1,5	black	4x 3,0	50	o. r.	o. r.	o. r.
920112	M 25 x 1,5	black	3x 6,0	50	o. r.	o. r.	o. r.
920114	M 25 x 1,5	black	4x 5,0	50	o. r.	o. r.	o. r.
920117	M 25 x 1,5	black	6x 4,0	50	o. r.	o. r.	o. r.
903529	M 25 x 1,5	black	7x 3,0	50	o. r.	o. r.	o. r.
920122	M 32 x 1,5	black	3x 8,0	50	o. r.	o. r.	o. r.
920126	M 32 x 1,5	black	6x 5,0	50	o. r.	o. r.	o. r.
903530	M 32 x 1,5	black	6x 6,0	50	o. r.	o. r.	o. r.
903531	M 32 x 1,5	black	9x 3,0	50	o. r.	o. r.	o. r.
920129	M 32 x 1,5	black	9x 4,0	50	o. r.	o. r.	o. r.

* only for cable glands type HT or HT-MS with clamping range 5-10 mm

Fastening pins
Fastening pins for empty penetrations.

Material
Polyethylene

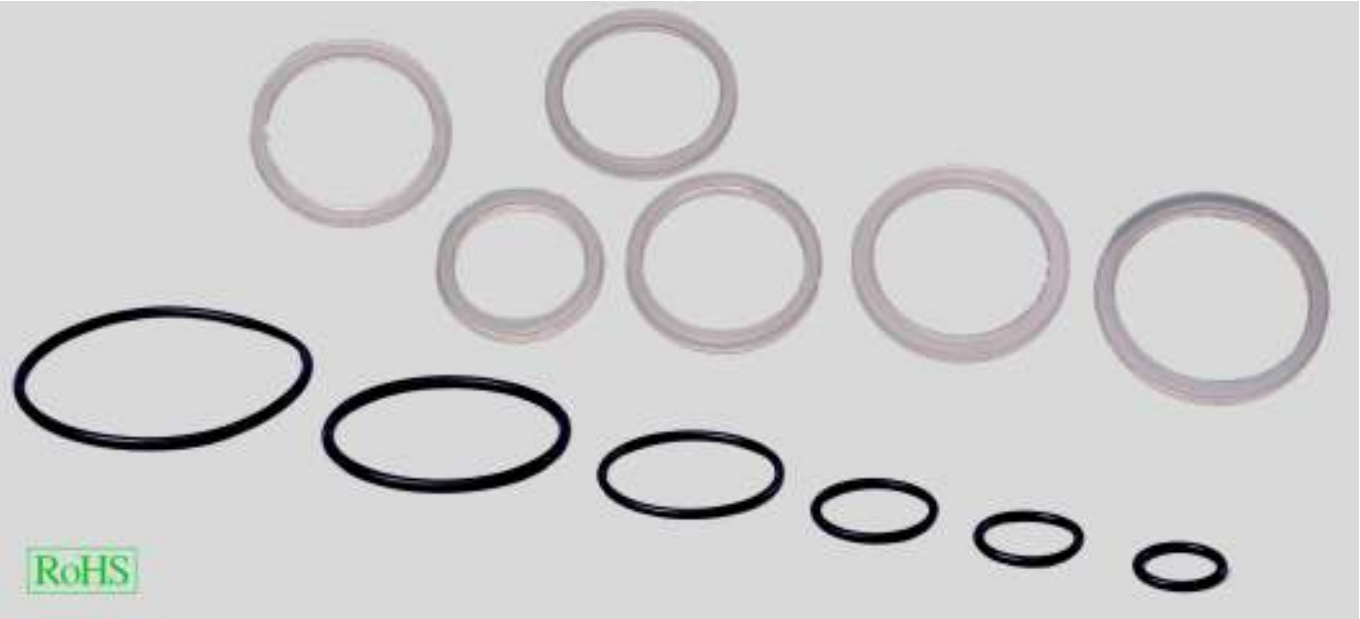
Technical data
Temperature range: -20°C up to +100°C

Part no. black	Part no. white	Diameter x length	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
903515	903502	3,0 x 25,0	100	o. r.	o. r.	o. r.
903516	903503	4,0 x 20,0	100	o. r.	o. r.	o. r.
903517	903504	4,0 x 25,0	100	o. r.	o. r.	o. r.
	903505	5,0 x 25,0	100	o. r.	o. r.	o. r.
903518		5,3 x 25,0	100	o. r.	o. r.	o. r.
903519		6,0 x 25,0	100	o. r.	o. r.	o. r.
	903506	6,0 x 28,0	100	o. r.	o. r.	o. r.
903520	903507	6,4 x 25,0	100	o. r.	o. r.	o. r.
903521		7,0 x 25,0	100	o. r.	o. r.	o. r.
	903508	7,0 x 28,0	100	o. r.	o. r.	o. r.
903522	903509	7,5 x 20,0	100	o. r.	o. r.	o. r.
903523		8,0 x 20,0	100	o. r.	o. r.	o. r.
	903510	8,0 x 30,0	100	o. r.	o. r.	o. r.
903524		9,0 x 20,0	100	o. r.	o. r.	o. r.
	903511	9,0 x 30,0	100	o. r.	o. r.	o. r.
903525		9,3 x 20,0	100	o. r.	o. r.	o. r.
903526		10,0 x 20,0	100	o. r.	o. r.	o. r.
	903512	10,0 x 30,0	100	o. r.	o. r.	o. r.
	903513	11,0 x 30,0	100	o. r.	o. r.	o. r.
	903514	12,0 x 30,0	100	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

O-rings / Connection thread sealing rings PE



O-rings
O-rings for sealing against water, dust and oil.

Material
- halogen-free
- silicone-free
- phosphor-free

Buna-N

Colours: black

Technical data
Temperature range: -30°C up to +120°C

O-rings

Part no.	Size metric	Inner Ø mm	Outer Ø mm	Thickness mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
90263	M 12 x 1,5	9,0	12,0	1,5	100	o. r.	o. r.	o. r.
90264	M 16 x 1,5	13,0	16,0	1,5	100	o. r.	o. r.	o. r.
90265	M 20 x 1,5	17,0	20,0	1,5	100	o. r.	o. r.	o. r.
90266	M 25 x 1,5	22,0	26,0	2,0	100	o. r.	o. r.	o. r.
90267	M 32 x 1,5	29,0	33,0	2,0	100	o. r.	o. r.	o. r.
90268	M 40 x 1,5	35,0	39,0	2,0	100	o. r.	o. r.	o. r.
90269	M 50 x 1,5	45,0	49,0	2,0	100	o. r.	o. r.	o. r.
90270	M 63 x 1,5	59,0	63,0	2,0	100	o. r.	o. r.	o. r.

AGDR-PE
Threaded connection rings for sealing against water and dust.

Material
- halogen-free
- phosphor-free
- cadmium-free

Polyethylene

Colours: natural

Technical data
Temperature range: -30°C up to +70°C

Connection thread sealing rings PE

Part no.	Size metric	Inner Ø mm	Outer Ø mm	Thickness mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
90890	M 12 x 1,5	12,0	16,0	2,0	100	o. r.	o. r.	o. r.
90891	M 16 x 1,5	16,0	19,5	2,0	100	o. r.	o. r.	o. r.
90892	M 20 x 1,5	20,0	24,0	2,0	100	o. r.	o. r.	o. r.
90893	M 25 x 1,5	25,0	31,5	2,0	100	o. r.	o. r.	o. r.
90894	M 32 x 1,5	32,0	38,5	2,0	100	o. r.	o. r.	o. r.
90895	M 40 x 1,5	40,0	53,0	2,0	100	o. r.	o. r.	o. r.
90896	M 50 x 1,5	50,0	60,0	2,0	100	o. r.	o. r.	o. r.
90897	M 63 x 1,5	63,0	73,0	2,0	100	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Blind plugs BL-H, BL-W

Blind plugs BL-H / BL-W
Blind plates as dust cap for HELUTOP® cable glands.

Material
H = Hard PVC
W = Foam

Technical data
Temperature range: -20°C up to +70°C

BL-H hard

Part no. clear	Size metric	Outer Ø mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
96417	M 16 x 1,5	13,5	100	o. r.	o. r.	o. r.
96419	M 20 x 1,5	18,5	100	o. r.	o. r.	o. r.
96421	M 25 x 1,5	26,0	100	o. r.	o. r.	o. r.
96422	M 32 x 1,5	35,0	100	o. r.	o. r.	o. r.
96423	M 40 x 1,5	45,0	100	o. r.	o. r.	o. r.
96424	M 50 x 1,5	52,0	100	o. r.	o. r.	o. r.
96425	M 63 x 1,5	57,0	100	o. r.	o. r.	o. r.

BL-W soft

Part no. black	Size metric	Outer Ø mm	Unit	net EUR/100 items at acceptance of up to 100	101 - 500	501 - 1000
96377	M 16 x 1,5	13,5	100	o. r.	o. r.	o. r.
96915	M 20 x 1,5	18,5	100	o. r.	o. r.	o. r.
96380	M 25 x 1,5	26,0	100	o. r.	o. r.	o. r.
96381	M 32 x 1,5	35,0	100	o. r.	o. r.	o. r.
96382	M 40 x 1,5	45,0	100	o. r.	o. r.	o. r.
96383	M 50 x 1,5	52,0	100	o. r.	o. r.	o. r.
96384	M 63 x 1,5	57,0	100	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice

o. r. = on request

Approval to HELUTOP® HT

HELUTOP® HT-M cable gland from polyamide, metric thread

Approval certificate no. 138040
Approval certificate no. 134171

Type designation BM (corresponding to HELUTOP® HT-M)

For all products:
Temperature range: -20°C / +80°
Protection classification: IP 68 - 5bar (30min.)

Size metric	Sealing range mm	Clamping range of Strain relief mm	Category of Strain relief	Installation torque tested to EN 50262* Nm	Category of impact effect
M12x1,5	3-6	3-6	A	1,7/2,5	2
M16x1,5	4-8	4-8	A	2,5/3,75	2
M16x1,5	5-10	5-10	A	2,5/3,75	2
M20x1,5	6-12	6-12	A	3,3/3,75	2
M20x1,5	10-14	10-14	A	3,3/3,75	2
M25x1,5	12-17	12-17	A	5,0/7,5	2
M25x1,5	13-18	13-18	A	5,0/7,5	2
M32x1,5	15-21	15-21	A	12/7,5	4
M32x1,5	18-25	18-25	A	12/7,5	4
M40x1,5	19-28	19-28	A	12/7,5	4
M40x1,5	22-31	22-31	A	12/7,5	4
M50x1,5	30-36	30-36	A	12/7,5	4
M63x1,5	34-44	34-44	A	12/7,5	4
M63x1,5	35-44	35-44	A	12/7,5	4

*Cap nut/gland and/or locknut

			VDE	UL	UR	CSA
Helutop HT	metric	M12 - M16	VDE		UR	CSA
		M20 - M63		UL		
	PG	PG7 - PG11	-		UR	
		PG13,5 - PG48		UL		
	NPT	3/8" - 1"		UL		
Helutop HT-R	metric, reduced	M12 - M63	VDE	-		CSA
Helutop HT-BS	metric	M12 - M16	VDE		UR	CSA
		M20 - M63		UL		
Helutop HT-K	metric	M12 - M16	-		UR	CSA
		M20 - M25		UL		
	PG	PG7 - PG11			UR	
		PG13,5 - PG21		UL		
	NPT	3/8" - 1"		UL		
Helutop-HT-MS	metric	M12 - M16	VDE		UR	-
		M20 - M63		UL		
	PG	PG7 - PG48	-	-		
	NPT	3/8" - 1"		UL		
Helutop MS-R	metric, reduced	M12 - M63	VDE	-		-
Helutop MS-EP	metric	M12 - M16	-		UR	-
		M20 - M63		UL		
	NPT	3/8" - 1"		UL		
Helutop MS-E	PG	PG7 - PG48	-	-		-
Helutop HT-E	metric	M12 - M16	-		UR	-
		M20 - M63		UL		
	PG	PG7 - PG48		-		
	NPT	3/8" - 1"		UL		
Updated: 26 January 2009						

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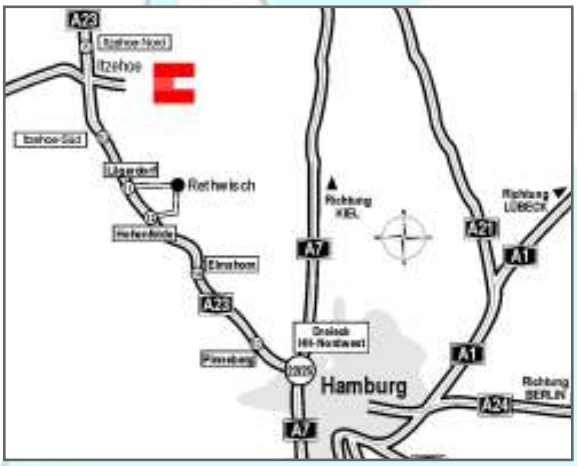

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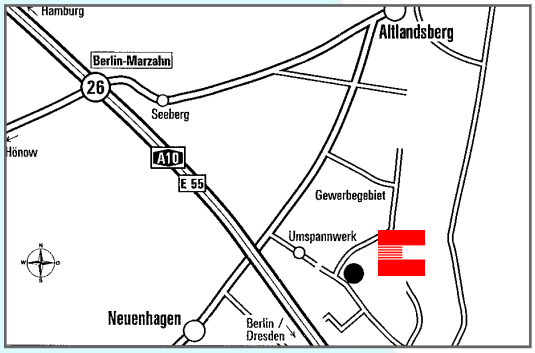

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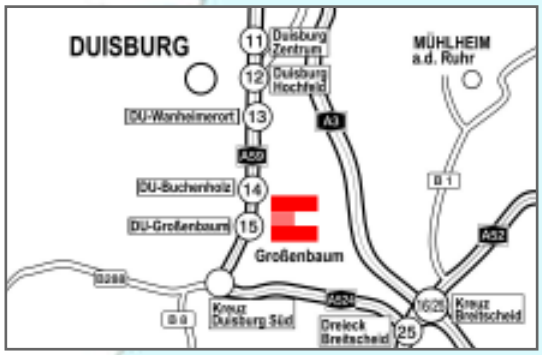

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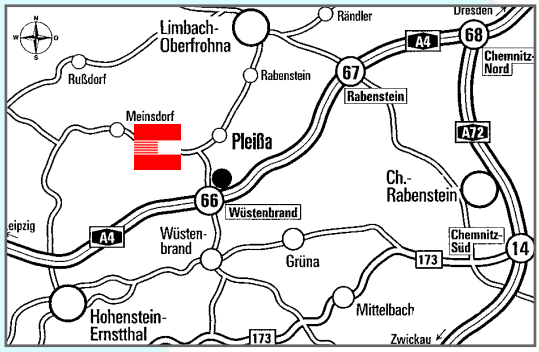

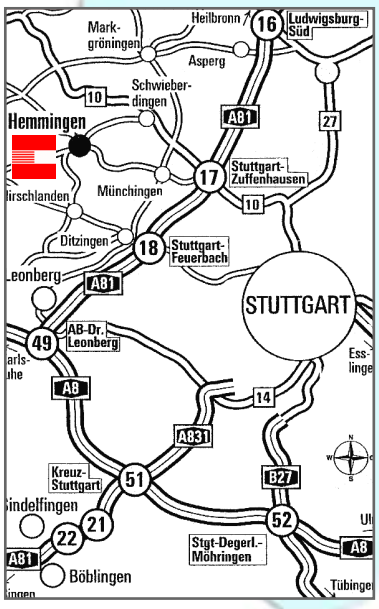

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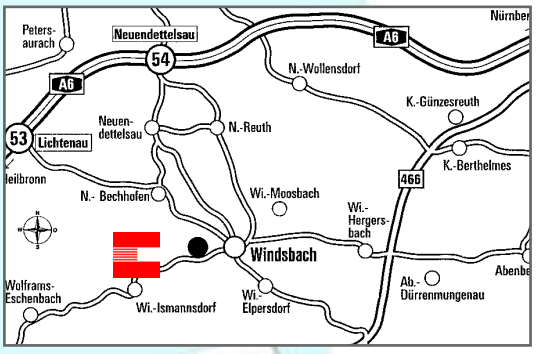

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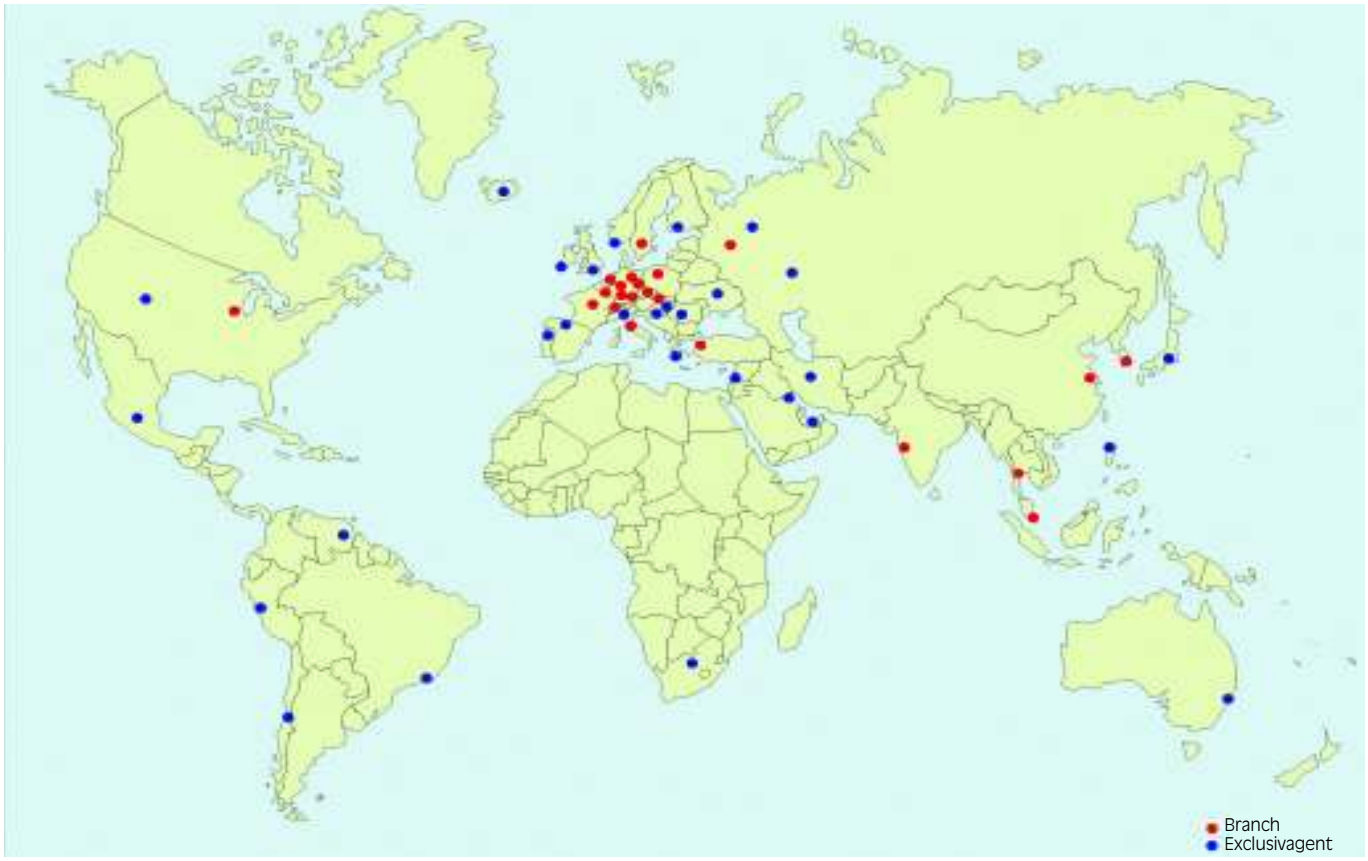

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Contact person

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