



Cable protection systems

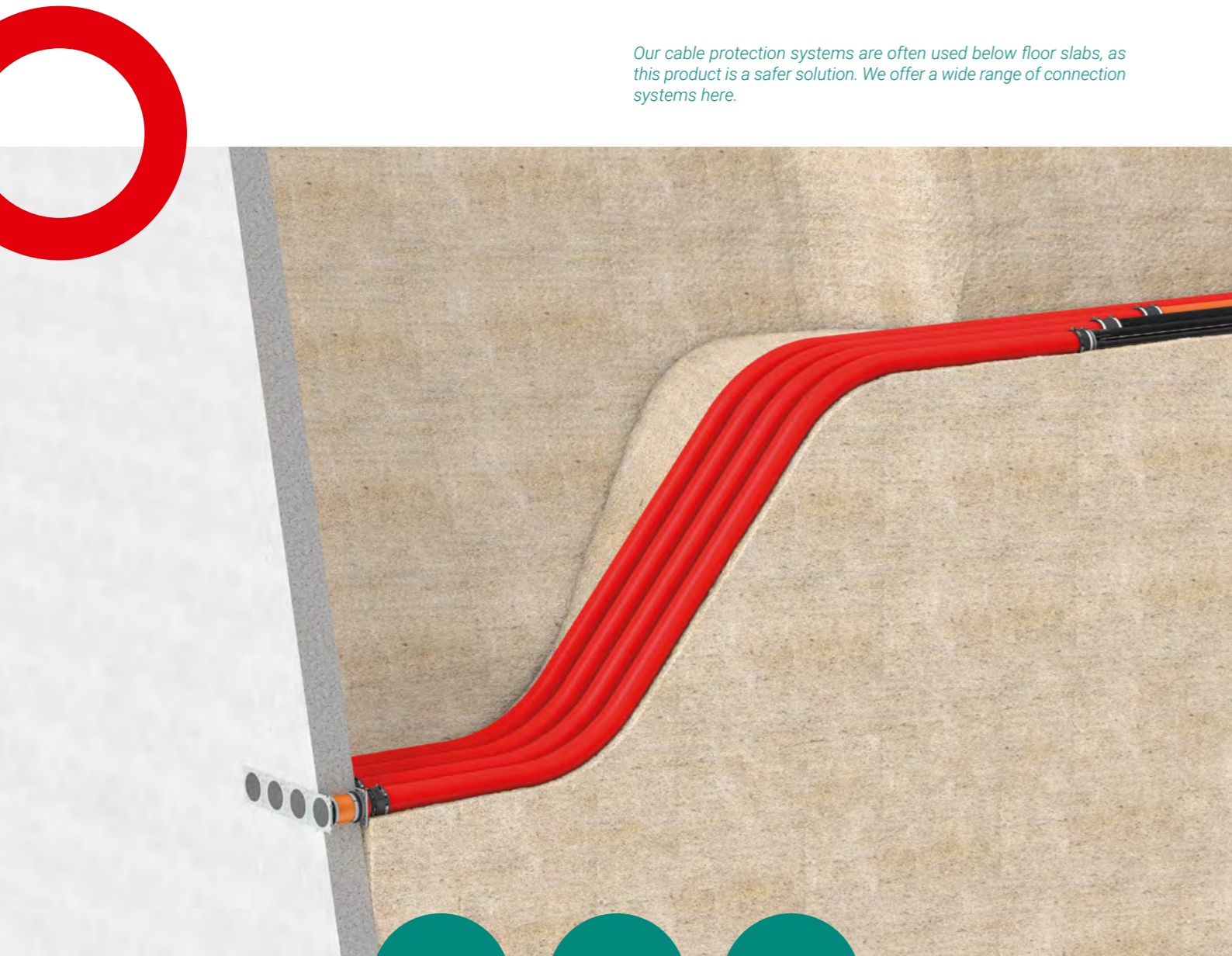
80 mm | 110 mm | 125 mm | 150 mm



🔗 Cable protection systems

with 80, 110, 125 and 150 mm inner diameter

Our cable protection systems are often used below floor slabs, as this product is a safer solution. We offer a wide range of connection systems here.



Cable routing that is leak-tight against gas and pressing water

Strong, resilient and flexible

Easy cable feed-through thanks to coating

Resilient, proven, flexible

The cable protection system consists of a flexible plastic spiral hose that allows you to lay cables so they are gas-tight and watertight (up to 2.5 bar).

We have also developed our cable protection conduits to be extremely robust to meet the high demands of your construction projects. They can therefore be set in concrete without any problems. Our system is also highly resistant to sharp edges and other mechanical influences.

You also remain flexible in your projects. If you want to change a cable assignment, no time-consuming excavation work is necessary. Thanks to the smooth inner coating (KSS Superslide), cables can be pulled through easily.

All our cable protection systems are brine and seawater resistant and resistant to a wide range of chemicals – so you can use them without hesitation. They also have a dimensionally stable crush resistance in accordance with DIN-EN 61386-24. Depending on the hose diameter selected, the minimum bending radius is 0.5 to 1 metre.

We are happy to supply the KSS in customised lengths. Extensions are also available with EPDM sleeves with optional stainless-steel pipe strap. Please contact us with your requirements, because with the variety of combinable connection systems, UGA's cable protection system is unique on the market.

Technical information on our cable protection systems

Easy cable pulling: Our KSS Superslide internal coating offers you outstanding properties for pulling through cables to be laid. We have proven this in a certified test in accordance with DIN-EN ISO 8295:2004/10. The slip coefficient for our standard coating is a very good 0.57 – ideal for most applications. If you attach even more importance to ease of movement, choose our system with Pro coating. The best value here is an exceptional 0.39.

Flexible and dimensionally stable at the same time: the combination of soft PVC and rigid PVC enables us to achieve excellent crimp resistance for our cable protection systems. With our KSS150-S-Pro cable protection system, you even get an apex compressive strength of over 750 N and a connection up to 2.5 bar.

Reliably protects against moisture and mechanical stress

You can easily connect our cable protection systems (KSS) with a wide range of connection components: with wall inserts, wall sleeves and other cable protection conduits and tubes. This allows you to lay your cables optimally protected against external influences. This allows you to create connections between buildings at any time that are leak-tight against gas and pressing water.

The KSS system is available in 4 exact internal diameters: 80, 110, 125 and 150 mm. All cable protection conduits feature high mechanical load-bearing capacity and flexibility. They can be set in concrete without any problems.

Your advantages with the cable protection system

- Secure connections that are leak-tight against gas and pressing water
- Optimum cable protection for building and earth movements
- Wide range of connection options
- Lightweight cable pull thanks to KSS Superslide
- Simple subsequent changes to the cable assignment possible



Product name:
KSS150-S/(L)

Cable protection system KSS150

The KSS150 cable protection system is a flexible plastic spiral conduit for gas-tight and watertight cable laying. With its large number of connection options, the KSS system can be flexibly connected to conduit systems or cable entries. The system is compatible with all common cable protection conduits.

- Heavy-duty cable protection conduit with an inner diameter of 150 mm
- Smooth KSS Superslide inner coating for optimum cable tension
- Extremely robust against sharp edges and other external influences during processing on the construction site



LRQA



1 bar



Product name:
KSS150-Pro/(L)

Cable protection system KSS150 Pro

The KSS150 Pro cable protection system is a flexible plastic spiral conduit for gas-tight and watertight cable laying in extreme construction situations. With its large number of connection options, the KSS System Pro can be flexibly connected to conduit systems or cable entries. The system is compatible with all common cable protection conduits. It is also possible to perform static calculations for pipes.

- Heavy-duty cable protection conduit with an inner diameter of 150 mm
- Smooth KSS Superslide inner coating for optimum cable tension
- Extremely robust against sharp edges and other external influences during processing on the construction site



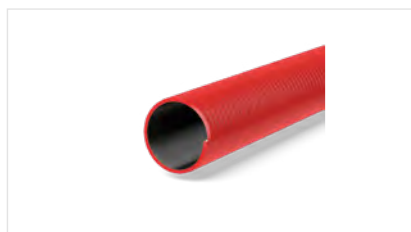
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2.5 bar



750 N



Product name:
KSS125-S/(L)

Cable protection system KSS125

The KSS125 cable protection system is a flexible plastic spiral conduit for gas-tight and watertight cable routing. With the large number of connection options, the KSS system can be flexibly connected to conduit systems or cable entries. The system is compatible with all common cable protection conduits.

- Heavy-duty cable protection conduit with an inner diameter of 125 mm
- Smooth KSS Superslide inner coating for optimum cable tension
- Extremely robust against sharp edges and other external influences during processing on the construction site



1 bar



Product name:
KSS110-S/(L)

Cable protection system KSS110

The KSS110 cable protection system is a flexible plastic spiral conduit for gas-tight and watertight cable routing. With the large number of connection options, the KSS system can be flexibly connected to conduit systems or cable entries. The system is compatible with all common cable protection conduits.

- Heavy-duty cable protection conduit with an inner diameter of 110 mm
- Smooth KSS Superslide inner coating for optimum cable tension
- Extremely robust against sharp edges and other external influences during processing on the construction site



1 bar



Product name:
KSS80-S/(L)

Cable protection system KSS80

The KSS80 cable protection system is a flexible plastic spiral conduit for gas-tight and watertight cable laying. With the large number of connection options, the KSS system can be flexibly connected to conduit systems or cable entries. The system is compatible with all common cable protection conduits.

- Heavy-duty cable protection conduit with an inner diameter of 80 mm
- Smooth KSS Superslide inner coating for optimum cable tension
- Extremely robust against sharp edges and other external influences during processing on the construction site



LRQA



1 bar

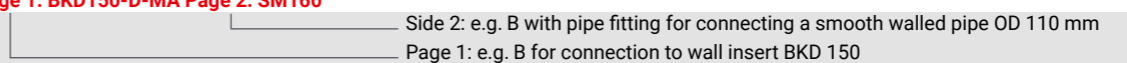
Product index

Product index for KSS with connection system (example)



KSS (A) 1/2 connection systems (L)

Page 1: BKD150-D-MA Page 2: SM160



Legend:



Tested by ...



Gas- and watertight up to ... bar



Crest compressive strength larger than...

Installation situations and example applications

See our services for yourself in real-life application: the following installation situations and practical examples illustrate our customised solutions.



KSS150 with connection system BKD150-D-MA



KSS110 with connection system KD110-D-MA

Would you like to know more?

Further information can be found in the product data sheets and assembly instructions in the download area of our website. Scan this QR code to get there.



Additional information

Technical data

Our cable protection system has been specially developed and tested. The following table provides an overview of the most important data.

Product name	Clear width in mm	Weight g/m	Bending radius mm	Wall thickness mm	Crest pressure according to DIN EN ISO 61386-24	Leak-tightness in bar	Roll length in m
KSS80-S	80	approx. 1900	540	6 ± 1	Type 250	1	50
KSS110-S	110	approx. 2900	740	6.8 ± 1	Type 250	1	25
KSS125-S	125	approx. 3600	830	6.9 ± 1	Type 250	1	25
KSS150-S	150	approx. 4700	990	7.7 ± 1	Type 250	1	25
KSS150-Pro	150	approx. 5500	1,000	8.4 ± 1	Type 750	2.5	25



KSS150 with connection in cuff technology MA (160-170)



KSS150-Pro with connection system BKD150-D-MA



Secure house connections through cellars or walls

Our BO-PLA floor slab entry system seals on both sides and is suitable for buildings without a basement and with a solid floor slab. The cable protection system is already integrated in it, thus fulfilling the requirements of energy suppliers and allowing cables and pipes to pass safely underneath the floor slab. You can find out more about our house lead-ins in the relevant brochure.









Ideal accessories





Spacers, assembly tools and more – explore our range of accessories and practical extras on our website. Simply scan the QR code to get there.

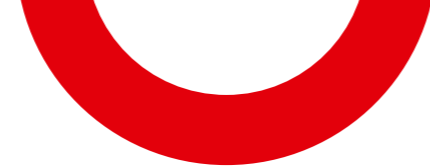


Compatibility of the systems

The following table tells you which connection element is suitable for which KSS system.

Connection system	Description	KSS variants					Pictures
		KSS150-Pro	KSS150	KSS125	KSS110	KSS80	
BKD150-K	Connection of system covers and system inserts from BKD150 for setting in concrete in floor slabs or walls	x	x	x	x		
KD110-K	Connection of system covers and system inserts from KD110 for setting in concrete in floor slabs or walls				x		
BKD90-K	Connection of system covers and system inserts from BKD90 for setting in concrete in floor slabs or walls					x	
BKD150-K-S-MA	Connection of system covers and system inserts from BKD150 for setting in concrete in floor slabs or Walls (rigid cables)	x	x	x	x		
KD110-K-S-MA	Connection of system covers and system inserts from KD110 for setting in concrete in floor slabs or walls (rigid cables)				x		
BKD90-K-S-MA	Connection of system covers and system inserts from BKD90 for setting in concrete in floor slabs or walls (rigid cables)					x	
BKD150-D-MA	Connection to bayonet wall insert BKD150	x	x	x	x		
KD110-D-MA	Connection to wall insert KD110				x		
BKD90-D-MA	Connection to bayonet wall insert BKD90					x	
D1/75	Connection cover with 1 pipe sleeve and hot-shrink sleeve for cables with DN 24–74 mm					x	
D1/80	Connection cover with 1 pipe sleeve and hot-shrink sleeve for cables with DN 26–78 mm	x	x	x	x		
D1/110	Connection cover with 1 pipe sleeve and hot-shrink sleeve for cables with DN 56–108 mm	x	x	x	x		
D3/30	Connection cover with 3 pipe sleeves and hot-shrink sleeve for cables with DN 12–29 mm					x	
D3/46	Connection cover with 3 pipe sleeves and hot-shrink sleeve for cables with DN 16–44 mm				x		
D3/59	Connection cover with 3 pipe sleeves and hot-shrink sleeve for cables with DN 22–57 mm	x	x	x			
D5/20	Connection cover with 5 pipe sleeves and hot-shrink sleeve for cables with DN 7–19 mm					x	
D7/32/25	Connection cover with 7 pipe sleeves and hot-shrink sleeve, three pipe sleeves for cables with DN 12–30 mm and four pipe sleeves for cables with DN 7–23 mm				x		
D7/38	Connection cover with 7 pipe sleeves and hot-shrink sleeve for cables with DN 9-37 mm	x	x	x			

Connection system	Description	KSS variants					Pictures
		KSS150-Pro	KSS150	KSS125	KSS110	KSS80	
D8/35/25	Connection cover with 8 pipe sleeves and hot-shrink sleeves, 4 pipe sleeves for cables with DN 7–34 mm and 4 pipe sleeves for cables with DN 7–24 mm	x	x	x			
R/110	PVC pipe section with OD of 110 mm for connection to a pipe fitting or to a core drilling/wall sleeve using a sealing insert				x		
R/125	PVC pipe section with OD of 125 mm for connection to a pipe fitting or to a core drilling/wall sleeve using a sealing insert			x			
R/160	PVC pipe section with OD of 160 mm for connection to a pipe fitting or to a core drilling/wall sleeve using a sealing insert	x	x				
FU-K/110	Roughened plastic wall sleeve DN110 made of PVC for setting in concrete in floor slabs or walls				x		
FU-K/125	Roughened plastic wall sleeve DN125 made of PVC for setting in concrete in floor slabs or walls			x			
FU-K/150	Roughened plastic wall sleeve DN110 made of PVC for setting in concrete in floor slabs or walls	x	x				
SM/110	Connection incl. pipe fitting SM 110 (for smooth - walled pipes 110 mm)				x		
SM/125	Connection incl. pipe fitting SM 125 (for smooth - walled pipes 125 mm)			x	x		
SM/160	Connection incl. pipe fitting SM 160 (for smooth - walled pipes 160 mm)	x	x				
GPD125	PVC pipe section with an OD of 90 mm and GPD 125 for connection to a core drilling/wall sleeve					x	
GPD150	PVC pipe section with an OD of 110 mm and GPD 150 for connection to one core drilling/wall sleeve				x		
GPD200	PVC pipe section with an OD of 160 mm and GPD 200 for connection to one core drilling/wall sleeve	x	x	x			
MA (75–89)	EPDM sleeve with a clamping range from 75–89 mm					x	
MA (105–120)	EPDM sleeve with a clamping range from 105–120 mm				x		
MA (120–137)	EPDM sleeve with a clamping range from 120–137 mm			x			
MA (160–170)	EPDM sleeve with a clamping range from 160–170 mm	x	x				



Grid of dotted lines for notes.

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Get in touch with us!

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