

Cable entry system

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Cable entry system

You want to connect a pre-assembled cable into an installation enclosure or a switch cabinet, or to subsequently install it without having to disconnect or cut-off the plug (potentially affecting the manufacturer's warranty)?

If so, you can save time and money by using our modular Cabtite cable entry system. These systems are a combination of splittable cable entry strips or cable glands connected with clamping grommets. The use of split, captive grommets allows different diameters to be fed into the enclosure whilst simultaneously guaranteeing IP 54 protection and strain relief. Thanks to the fact that they have the same design and dimensions, the modular components and grommets can be used in cable entry strips as well as in cable glands. The system is found particularly in measurement, power, computer lines or field bus systems in the areas of:

- Control engineering
- Switchgear cabinet manufacture
- Motor vehicle manufacture
- Systems engineering
- Mechanical engineering
- Electrical installation

Cabtite KEL SNAP frame



Separable cable gland Cabtite KVT



Cabtite sample set

Get a feel for the Cabtite system with our Cabtite sample set. It contains cable entry frames, snap frames, separable cable glands as well as diverse cable grommets.

Ordering data

Type	Qty.	Order No.
Cabtite sample Kit	1	1849780000

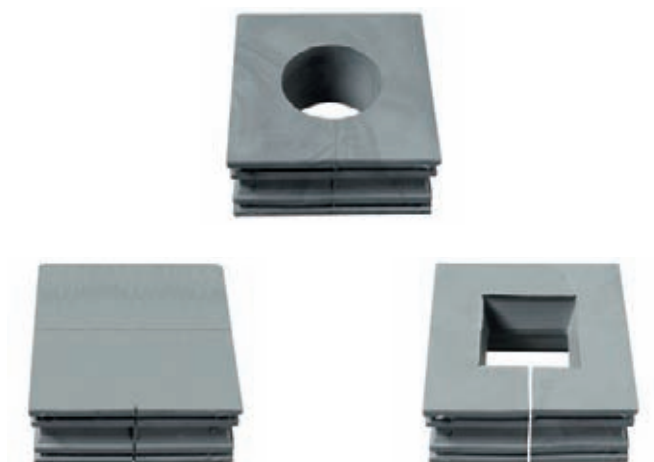
HDC KT ...

Cable grommets, small

Cable grommets
for ASI cables

HDC KT ...

Cable grommets, large



Blanking plugs

Adapter grommet

Technical data

Material, grey	Elastomers, free from halogens and silicone
Material, black	Elastomers with very high chemical resistance
Temperature range	-20 °C...80 °C
UL 94 flammability rating	V0

Ordering data

Type	Clamping range [mm]	Qty.	Order No. grey	Order No. black
HDC KT 3	3-4	10	1826460000	1827790000
HDC KT 4	4-5	10	1826470000	1827800000
HDC KT 5	5-6	10	1826480000	1827810000
HDC KT 6	6-7	10	1826490000	1827830000
HDC KT 7	7-8	10	1826500000	1827840000
HDC KT 8	8-9	10	1826510000	1827850000
HDC KT 9	9-10	10	1826520000	1827860000
HDC KT 10	10-11	10	1826530000	1827870000
HDC KT 11	11-12	10	1826540000	1827880000
HDC KT 12	12-13	10	1826550000	1827890000
HDC KT 13	13-14	10	1826560000	1827900000
HDC KT 14	14-15	10	1826570000	1827910000
HDC KT 15	15-16	10	1826580000	1827920000
HDC KTS 16	16-17	10	1826590000	1827930000
HDC KTS 17	17-18	10	1826600000	1827940000
for ASI cables				
HDC KT-ASI		10	1826610000	1828120000
2 or 4 openings				
HDC KT 2/4	2 x 4	10	1826620000	1828130000
HDC KT 2/5	2 x 5	10	1826630000	1828140000
HDC KT 2/6	2 x 6	10	1826640000	1828150000
HDC KT 4/5	4 x 5	10	1826650000	1828160000
Blanking plugs, small				
HDC BTK		10	1828170000	1828200000

Technical data

Material, grey	Elastomers, free from halogens and silicone
Material, black	Elastomers with very high chemical resistance
Temperature range	-20 °C...80 °C
UL 94 flammability rating	V0

Ordering data

Type	Clamping range [mm]	Qty.	Order No. grey	Order No. black
HDC KT 16	16-17	10	1825950000	1827950000
HDC KT 17	17-18	10	1826300000	1827960000
HDC KT 18	18-19	10	1826310000	1827970000
HDC KT 19	19-20	10	1826320000	1827980000
HDC KT 20	20-21	10	1826330000	1827990000
HDC KT 21	21-22	10	1826340000	1828000000
HDC KT 22	22-23	10	1826350000	1828010000
HDC KT 23	23-24	10	1826360000	1828020000
HDC KT 24	24-25	10	1826370000	1828030000
HDC KT 25	25-26	10	1826380000	1828040000
HDC KT 26	26-27	10	1826390000	1828050000
HDC KT 27	27-28	10	1826400000	1828060000
HDC KT 28	28-29	10	1826410000	1828070000
HDC KT 29	29-30	10	1826420000	1828080000
HDC KT 30	31-32	10	1826430000	1828090000
HDC KT 32	32-33	10	1826440000	1828100000
HDC KT 34	33-34	10	1826450000	1828110000
Adapter grommet, large (for small cable grommets)				
HDC ATG		10	1828190000	1828220000
Blanking plugs, large				
HDC BTG		10	1828180000	1828210000

Cabtite KEL

Cabtite KEL

The rectangular panel cutout frames fit exactly into the standard cutout for heavy-duty connectors. This makes it possible to accommodate up to 40 connectors in a very confined space.

- Feeds through prefabricated wiring in confined spaces.
- Two-piece, two-tier system
- Fast and easy mounting
- Standard panel cutout frames for 16 and 24 pole industrial plug-in connectors
- The predefined gap achieves a minimum class of protection of IP54
- Large numbers of cables in very confined spaces
- Retrofitting of prefabricated wiring also possible
- The manufacturer's guarantee covering the prefabricated cables remains valid
- Integral strain relief to VDE 0619
- Locknuts ensure that working "overhead" is safe and simple

Cabtite KEL SNAP frame

Snap frame for mounting the cable entry frame in the switchgear cabinet.

- The KEL can be fitted quickly without tools
- The KEL need not be fitted or removed to add or remove individual cables
- The drilling pattern is identical with that of the KEL
- Seals are already integrated on both sides
- Switchgear cabinets can be fitted with KEL SNAP in advance
- KEL Snap is available for KEL 16, KEL 24 and KEL B4.

Cabtite KEL-DP

The Cabtite KEL-DP feed-through plate system offers an affordable alternative to standard cable glands. It is ideal when multiple cables must be connected within an installation housing and when IP54 protection is adequate. Weidmüller offers this system with round and rectangular entry plates. The entry plates are simply pressed into the standard cut-outs. The position of the system is centred by means of integrated spring-loaded pins.

The advantages of this system are clear:

- High packing density
- Affordable
- Simple, tool free installation in seconds
- Very low profile

Operating mode

1. The grommet is fitted around the cable.

Important:

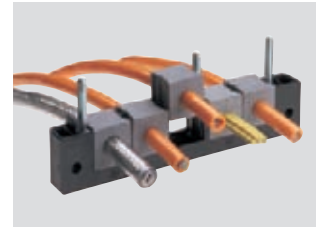
Choose an appropriately sized grommet for the diameter of the cable!



2. Press the grommet with the cable into the open cable entry frame.

Important:

The flat side of the grommet must face upwards!



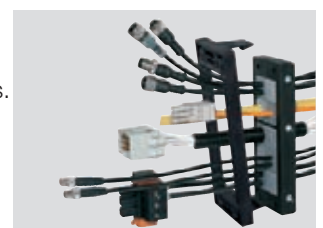
3. Assemble the two halves of the cable entry frame using the M5x50 Allen screws supplied. This achieves integral strain relief in accordance with VDE 0619 (VDE = German Association for Electrical, Electronic and Information Technologies).



4. Finally, the rubber seal is glued around the cabinet panel cutout and the cable entry frame is secured with 4 screws. The cable entry is now complete, and has a protection class of IP54!



Advantage: The panel cutout frames are the same as those used for heavy-duty connectors. They are supplied by the switchgear cabinet manufacturers. You do not require a new punching die!



HDC KEL 16**Size equivalent to 16-pole HE inserts**

KEL 16/8 with 8 small grommets



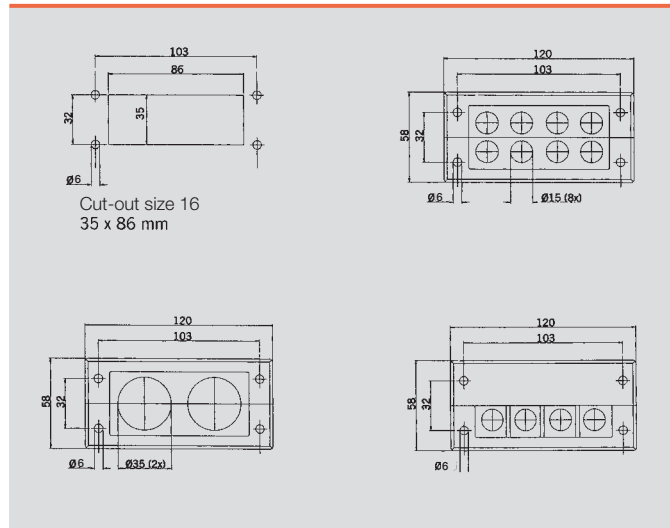
KEL 16/4 closed half-shell and 4 small grommets

Snap frame
KEL 16 SNAP**Technical data**

Material	Polyamide, free from halogens and silicone
Colour	black
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

Ordering data

Type	Number of grommet positions small	large	Qty.	Order No.
HDC KEL 16/2	–	2	10	1825860000
HDC KEL 16/4	4	– *)	10	1825900000
HDC KEL 16/5	4	1	10	1849770000
HDC KEL 16/8	8	–	10	1825910000
Snap frame				
HDC KEL 16 SNAP			10	1827770000
*) with closed half shell				

Dimensions**HDC KEL 24****Size equivalent to 24-pole HE inserts**

KEL 24/10 with 10 small grommets



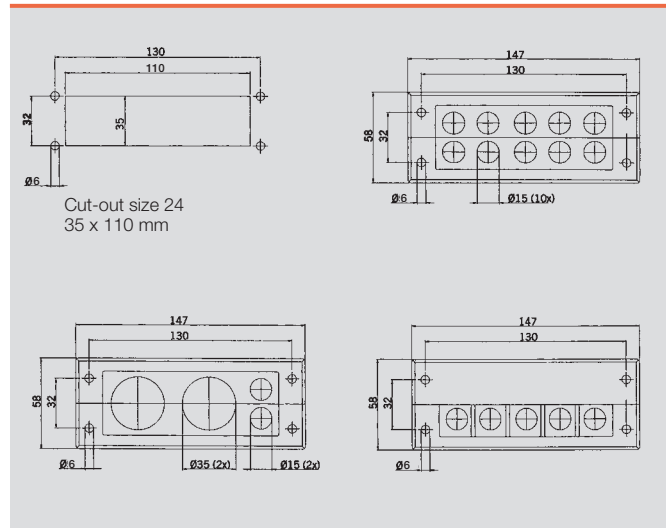
KEL 24/7 with 1 large and 6 small grommets

Snap frame
KEL 24 SNAP**Technical data**

Material	Polyamide, free from halogens and silicone
Colour	black
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

Ordering data

Type	Number of grommet positions small	large	Qty.	Order No.
HDC KEL 24/4	2	2	10	1825930000
HDC KEL 24/5	5	– *)	10	1825940000
HDC KEL 24/7	6	1	10	1849760000
HDC KEL 24/10	10	–	10	1827760000
Snap frame				
HDC KEL 24 SNAP			10	1827780000
*) with closed half shell				

Dimensions

Cable entry strips and panels

HDC KEL B

KEL B 1 with 1 large grommet



KEL B 4 with 4 small grommets



Snap frame KEL-SNAP B4



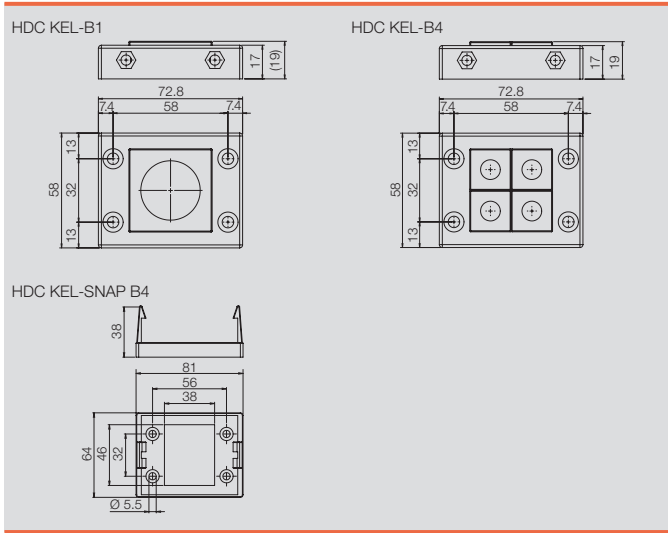
Technical data

Material	Polyamide, free from halogens and silicone
Colour	black
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

Ordering data

Type	Number of grommet positions small	large	Qty.	Order No.
HDC KEL-B1	-	1	10	1048170000
HDC KEL-B4	4	-	10	1048180000
Snap frame				
HDC KEL-SNAP B4			10	1048190000

Dimensions



HDC KEL DP - Rectangular version**Rectangular cable entry plates (112 x 35 mm)**

CABTITE KEL-DP 24/14



CABTITE KEL-DP 24/17



CABTITE KEL-DP 24/19



CABTITE KEL-DP 24/26



CABTITE KEL-DP 24/48



CABTITE KEL-DP 24/50

**Technical data**

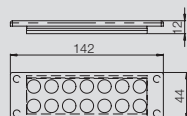
Material	Elastomers, free from halogens and silicone
Colour	grey
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

Ordering data

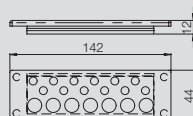
Rectangular version (112 x 35 mm)			
Type	Number of lines with maximum diameter (in mm)	Qty.	Order No.
CABTITE KEL-DP 24/14	14 x max. 12.1 mm	1	1039850000
CABTITE KEL-DP 24/17	12 x max. 12.6 mm 5 x max. 10.5 mm	1	1039870000
CABTITE KEL-DP 24/19	7 x max. 12.1 mm 12 x max. 6.5 mm	1	1039890000
CABTITE KEL-DP 24/26	2 x ASI cables 16 x max. 6.5 mm 4 x max. 12.1 mm 4 x max. 16.1 mm	1	1039930000
CABTITE KEL-DP 24/48	48 x max. 6.5 mm	1	1039940000
CABTITE KEL-DP 24/50	33 x max. 5.3 mm 9 x max. 6.4 mm 8 x max. 8.3 mm	1	1039950000

Dimensions

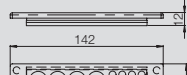
Cut-out size KEL-DP 24
112 x 35 mm



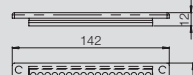
CABTITE KEL-DP 24/14



CABTITE KEL-DP 24/19



CABTITE KEL-DP 24/26



CABTITE KEL-DP 24/50

HDC KEL DP - Round version**Round cable entry plates**

CABTITE KEL-DP 32/10



CABTITE KEL-DP 50/9



CABTITE KEL-DP 50/12



CABTITE KEL-DP 50/16



CABTITE KEL-DP 50/18



CABTITE KEL-DP 50/20

**Technical data**

Material	Elastomers, free from halogens and silicone
Colour	grey
Temperatur range	-20 °C...80 °C
Class of protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

Ordering data

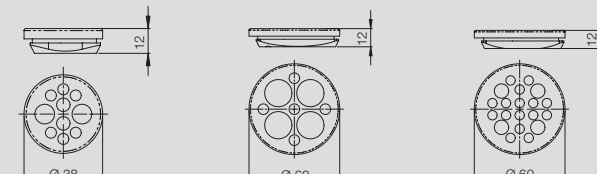
Round version				
Type	Number of lines with maximum diameter (in mm)	Qty.	Order No. for sheet thickness of 1.5 to 2.5 mm	Order No. for sheet thickness of 2.8-4.0 mm
CABTITE KEL-DP 32/10	6 x max. 5.2 mm 2 x max. 6.4 mm 2 x max. 9.4 mm	1	1040120000	1040310000
CABTITE KEL-DP 50/9	5 x max. 7.0 mm 4 x max. 18.0 mm	1	1040130000	1040320000
CABTITE KEL-DP 50/12	10 x max. 9.2 mm 2 x max. 11.2 mm	1	1040160000	1040330000
CABTITE KEL-DP 50/16	4 x max. 5.3 mm 5 x max. 6.3 mm 3 x max. 9.5 mm 4 x max. 11.3 mm	1	1040180000	1040350000
CABTITE KEL-DP 50/18	5 x max. 11.5 mm 5 x max. 9.0 mm 4 x max. 6.5 mm 2 x max. 5.5 mm 2 x max. 4.0 mm	1	1040210000	1040360000
CABTITE KEL-DP 50/20	16 x max. 6.3 mm 4 x max. 9.3 mm	1	1040240000	1040370000

Dimensions

2.8 to 4.0 mm sheet thickness



1.5 to 2.5 mm sheet thickness



CABTITE KEL-DP 32/10

CABTITE KEL-DP 50/9

CABTITE KEL-DP 50/20

Cable entry strips and panels

Cable clamping rail Cabtite KEL-EMV

Provides EMV for prefabricated cable without interrupting shielding.

Advantages:

- Direct, simple and quick contact with the enclosure
- Two-tier version saves space with up to 10 cables
- Strain relief without cable ties in accordance with VDE 0619
- No EMC cable glands necessary for mains-generated interference sources
- Low-impedance shielding contact
- Seals using outer sheath and not the shield = higher class of protection!
- Trouble-free retrofitting



Technical data

Material	Stainless steel
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Ordering data

Type	for	Qty.	Order No.
 HDC KEL EMV 16/4	KEL 16	10	1825750000
 HDC KEL EMV 24/5	KEL 24	10	1825760000
 HDC KEL EMV x/3	KEL 16 and KEL 24 transverse	10	1825770000

Strain-relief strips

The Cabtite KZL strain-relief strips are used when routing various types of cables to machines and electrical cabinets. A secure grip is ensured by the undercut on the comb-shaped profile. Cable ties provide strain relief for the cables. Undercuts in the teeth of the KZL prevent the cable tie from slipping out.

HDC KZL

CABTITE KZL 140



CABTITE KZL 80



CABTITE KZL 39



Technical data

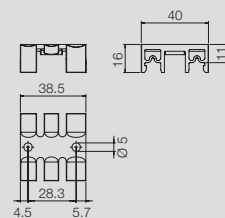
Material	Polyamide, free from halogens and silicone
Colour	black
Temperatur range	-20 °C...80 °C
Class of Ingress protection	IP54, when the correct cable grommet is selected
UL 94 flammability rating	V0

Ordering data

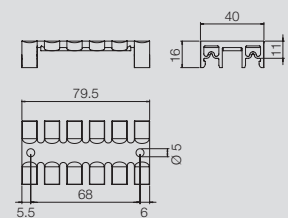
Type	Length	Qty.	Order No. for 35 mm DIN mounting rail	Order No. for C profile rail
CABTITE KZL 39	39 mm	10	1039990000	1040080000
CABTITE KZL 80	80 mm	10	1039970000	1040060000
CABTITE KZL 140	140 mm	10	1039960000	1040030000

Dimensions

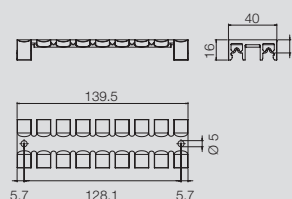
CABTITE KZL 39 for 35 mm DIN rail



CABTITE KZL 80 for 35 mm DIN rail



CABTITE KZL 140 for 35 mm DIN rail



Separable cable gland

Cabtite KVT

KVTs are used to feed through prefabricated cables when space is tight or only a few cables are required. As is the case with its big brother, the KEL, this product is also a two-piece system for easy assembly using the same cable grommets. The preassembled KVT32 can be used for hole diameters up to 35 mm, the KVT63 for hole diameters up to 65 mm. A sealing ring is also included.

- This two-piece system means that the size of the plug-in connector to be fed through is limited only by the size of the hole diameter.
- Two-piece two-tier system
- Fast and easy mounting
- The predefined gap achieves a minimum class of protection of IP54
- Large numbers of cables in very confined spaces
- Retrofitting of prefabricated wiring also possible
- The manufacturer's guarantee covering the prefabricated cables remains valid
- Integral strain relief to VDE 0619

Technical data

Material	Polycarbonate, free from halogens and silicone
Colour	grey, similar to RAL 7035
Class of Ingress protection	IP54, when the correct cable grommet is selected
Temperatur range	-30 °C...+100 °C
UL 94 flammability rating	V0

Ordering data

Type	Thread	No. of grommet positions small large	Qty.	Order No. white
 HDC KVT 25	M 25 x 1.5	1 -	10	1826660000
 HDC KVT 32	M 32 x 1.5	1 -	10	1826670000
 HDC KVT 63-4	M 63 x 1.5	4 -	5	1828230000
 HDC KVT 63-1	M 63 x 1.5	- 1	5	1828240000
Locknut for D-Sub 9				
 KGM-SUB-D9	M 32 x 1.5	1 -	10	1828250000

Note: HDC KVT 63-x types are supplied with a locknut.

Operating mode

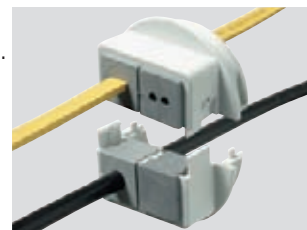
1. The grommet is fitted around the cable.

Important:

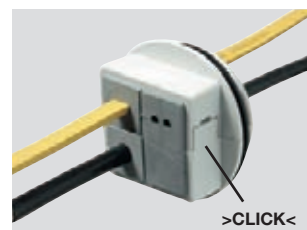
Choose an appropriately sized grommet for the diameter of the cable!



2. Press the grommet with the cable into the open cable gland. The flat sides of the grommet must face upwards when fitting the KVT 63/4!



3. Squeeze the two halves of the cable gland together until they lock together with an audible "click".



4. Place the seal, which is also supplied, over the thread. Then fit the cable gland into the hole and, if necessary, secure it with a locknut.



Dimensions

