

Simply Smart Systems

# Cable entry systems and holders





The brand murrplastik®

# Industry-focused Future-proof Customized

Manufacturing is the driving force in our fast-moving, connected world. More so than nearly any other sector of the economy, industry lies at the heart of continuous innovation and change. To survive long term, you have to be able to react to ever-changing developments and conditions flexibly and with foresight. The highest level of economic know-how is just as indispensable here as powerful machines and reliable production facilities.

With over 60 years of experience in the development, production and sale of smart cable management systems and individual components, at murrplastik® we support companies worldwide in optimizing their work processes.

**For the customers, this means protected investments, long-lasting machines and shorter downtimes as the basis for a future-proof, up-to-date corporate development.**



## Contents

### The brand murrplastik

Industry-focused, future-proof, customized 02

### Table of contents

04

### Who we are

We create room for progress - Simply Smart Systems 05  
System overview 06

### Information, standards and directives

Fire and protection classes 08  
Industry intro page 08  
Energy industry 10  
Cable entry system KDL/E+ 12  
Food industry 14  
Cable entry system KDL/H-VA FDA 16  
Customized cable entry systems 18  
Cable entry systems versus cable fittings 20  
Simply Smart Systems 22

### murrplastik products

Cable entry systems and grommets 24-29  
Cable entry plates and grommets 30-32  
EMC items 32-34  
Strain relief 35  
Special frames, angular housings and accessories 35-37  
Punching tools 38  
Time to change 39

### Webshop

Our entire range at a click - shop.murrplastik.de 40

### murrplastik worldwide

Our locations 42

## Who we are

# We create room for progress Simply Smart Systems

Building on the development of the first computer-assisted labeling system and our decades of experience in the field of intelligent cable management, murrplastik® offers not only individual solutions but also complete cable management solutions - everything from one source.


In close cooperation with our experts, we will find the optimum solution for you and your requirements. Comprehensive consulting is just as much a part of our service portfolio as the rapid implementation, maintenance and support of the systems in case of a service issue.

**That is how we can ensure the basis for the modern, future-proof, progressive growth of your company.**



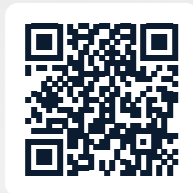
 **Automation & Robotics**

 **Conduits & fittings**

 **cable entry systems**

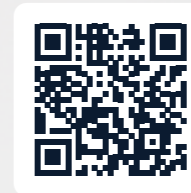
 **Labeling**

 **Energy chains**



**Our entire range at a click**

[shop.murrplastik.de](https://shop.murrplastik.de)



**industries and application areas**

[murrplastik.de/en/industries](https://murrplastik.de/en/industries)



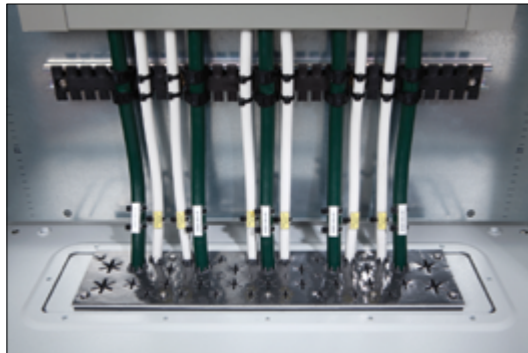
## Description of the Fire classification according to UL 94

### Fire classification HB

The material burns slowly in the horizontal combustion test. The rate of combustion must not exceed 3 inch/min. for wall thicknesses of up to 3 mm (0.12 in), and 1.5 inches/min. for wall thicknesses over 3 mm (0.12 in). Any materials exceeding these combustion rate limits are not registered by UL.

### Fire classification V2

In the vertical combustion test, self-extinguishing must occur after an average of 25 seconds (individual values not to exceed 30 seconds). Any dripping material may ignite cotton wool located underneath. However, any afterglow must not exceed 60 seconds.



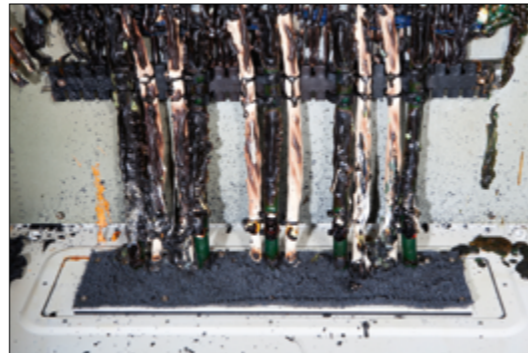
The fire protection mat reacts at temperatures exceeding 160 °C (320 °F) by expanding

### Fire classification V1

In the vertical combustion test, self-extinguishing must occur also after an average of 25 seconds (individual values are not to exceed 30 seconds). However, any material dropping off must not ignite cotton wool placed underneath. Any afterglow must not exceed 30 seconds.

### Fire classification V0

In the vertical combustion test, self-extinguishing must occur after an average of less than 5 seconds (individual values not to exceed 10 seconds). However, any dripping material must not ignite the cotton wool and any afterglow must not exceed 30 seconds.




















and thereby closing off the opening completely fire resistant.

## Description of the Protection ratings according to DIN EN 60529

An important element for housings is protection of integrated elements against drilling, foreign particles and water. The various protective abilities are divided into IP protection ratings (IP = International Protection). The framework conditions that a protection class must guarantee are laid out in DIN 40050 and IEC-EN 60529.

IP protection ratings are indicated through a two digit code (IPXX). The first digit indicates protection against contact and foreign particles, the second the water protection factor. Accordingly the class IP65 is completely protected against contacts, dust-proof (1st digit = 6) and is protected against jets of water from a nozzle in all directions (2nd digit = 5).

1. Digit	Contact protection	Foreign particle protection	
0	No protection		
1	Protected against solid foreign objects of 50 mm (1.97 in) and larger	The object probe, a sphere of 50 mm (1.97 in) in diameter, must not fully penetrate.	
2	Protected against solid foreign objects of 12.5 mm (0.49 in) and larger	The object probe, a sphere of 12.5 mm (0.49 in) in diameter, must not fully penetrate.	
3	Protected against solid foreign objects of 2.5 mm (0.09 in) and larger	The object probe of 2.5 mm (0.10 in), shall in no way penetrate.	
4	Protected against solid foreign objects of 2.5 mm (0.09 in) and larger	The object probe of 1.0 mm (0.04 in), shall in no way penetrate.	
5	Dust-protected	The ingress of dust is not fully prevented; however, it must not penetrate to such an extent that satisfactory operation or safety are impaired.	
6	Impervious to dust	No ingress of dust.	

2. Digit	Brief description	Water protection	
0	No protection		
1	Protected against vertical falling drops of water	Drops which fall vertically must not have any harmful effect.	
2	Protected against diagonally falling spray (up to 15°)	Drops which fall vertically must not have any harmful effects if the housing is inclined at an angle of up to 15° at either side of the perpendicular.	
3	Protected against diagonally falling spray (up to 60°)	Water which is sprayed at an angle of up to 60° from either side of the perpendicular must not have any harmful effects.	
4	Protected against spray from all directions	Water splashing against the enclosure from one direction shall have no harmful effect.	
5	Protected against jets of water (nozzle)	Water which is sprayed in a jet against the housing from any direction must not have any harmful effects.	
6	Protected against strong water jets (flooding)	Water projected in powerful jets from any direction against the housing shall have no harmful effects.	
6K	Protected against strong water jets (high pressure)	Water from any direction, strong jet directed against housing, must not have any harmful effects, specifically under increased pressure.	
7	Protected against the effect of temporary immersion in water	Water must not penetrate to an extent that will cause harmful effects if the housing is temporarily submerged in water under pressure and under time conditions.	
7M	Protected against the effect of temporary immersion in water with movement	Water must not enter in a quantity that causes a harmful effect when the housing is temporarily submerged under water under pressure and time conditions, especially during movement / water pressure fluctuations.	
8	Protected against the effect of permanent submersion in water	Water must not penetrate to such an extent that it will cause harmful effects if the housing is permanently submerged in water.	
9K	Protection against highly pressurized water/steam jet cleaning	IP x9K acc. to DIN 40050: Water jet at 0°/30°/60°/90°, cycle: 30 seconds each, distance: 10 - 15 cm (3.94 - 5.91 in) water volume: 14 - 16 liters (3.70 - 4.22 gal) per minute, water temperature: 80 °C +/- 5 °C (176 °F +/- 9 °F), water pressure: 80-100 bar	



# Durable solutions with high material resistance

Whether it is photovoltaics, solar energy or wind energy on land or at sea, the demands on our wide product range in professional cable management are very high. It must be reliable, material resistant and durable. To meet this, we have developed our components and systems to be corrosion, UV and temperature resistant. Adapted to different applications and loads, our products are also vibration, impact and tear-out resistant. In addition, they are highly dense and easy to assemble.

**With murrplastik® you contribute to the durability of your plant and prevent downtime and maintenance in the long term.**

● Cable entry system  
KDL/E+



[to the product video](#)

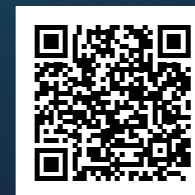


Cable entry system  
KDL/E+

# Progress that connects

Modern cable entry systems are not only space-saving, but also fulfill essential tasks such as protecting systems from moisture or dust. Thanks to their innovative plug-in system, our solutions are quick and easy to install. The labor and material costs are reduced to a minimum.

**Do you need customized solutions? We are the only company in the world where our experts configure your customized system.**



**Our entire range at  
a click**

[shop.murrplastik.de](https://shop.murrplastik.de)



# Highest requirements on safety and health protection

The food industry is characterized by demanding environmental conditions and the highest technical requirements. That is why we focus on durability, tightness, cleanability and disinfectability in our material selection and design.

**Our reliable and effective components and systems contribute to this through specific material developments and designs, avoid downtime in the production process as well as recalls and adverse health effects for consumers.**



Our entire range at a click

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● Cable entry system  
**KDL/H-VA FDA**

● **Cable entry systems and holders**

**When developing our products and systems for the food and beverage industry, we paid particular attention not only to complete customizability but also to hygienic design that meets the standards.**

Our corrosion-free cable entry system is the ideal solution for the highly specialized requirements of the industry. FDA compliant stainless steel guarantees media resistance, health safety and electromagnetic compatibility (EMC). The multi-part frame ensures easy assembly and high packing density, while the integrated strain relief protects cables and plugs - for maximum reliability, maintenance-free operation and a long service life.

 **Since 2021, murrplastik® has been a member of the European Hygienic Equipment Design Group** to support hygiene measures during the production and packaging of food.

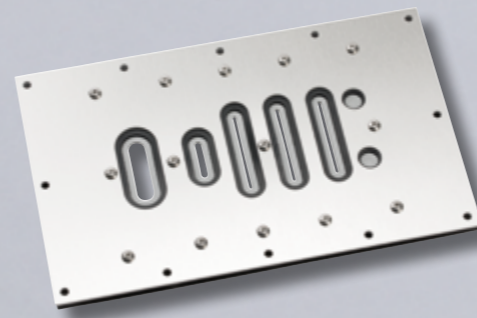


# Innovative production using a highly flexible manufacturing process

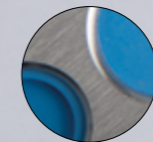
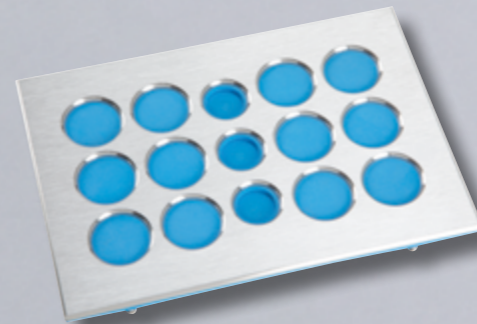
The custom-made cable entry plates are the only cable entry systems in the world that can be completely customized in terms of size, shape, features and material. They are used wherever extremely quick and cable-friendly assembly with high packing density is required.

The configured variants are constructed using the sandwich process from V2A, V4A, aluminum, PVC or PE. This will give the cable entry system a high degree of rigidity with just minimum thickness. The highly flexible manufacturing process has the advantage that all sizes and shapes can be freely presented and done with the added plus of an almost burr-free vertical cut. Even complex cut-outs, filigree structures and thin bars can be realized with ease. Also important: Material distortion is hardly ever an issue with this procedure. Sealing materials such as silicone, EPDM and NBR enable a wide variety of applications.

**Our configurations are also manufactured in accordance with strict Hygienic Design and FDA directives.**



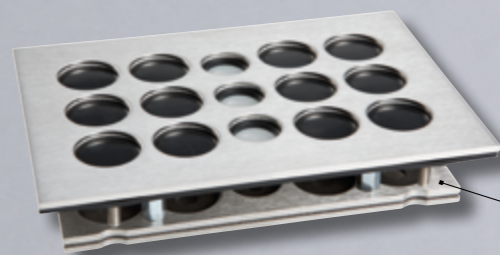
Also for ribbon cable



Specially rounded edges



Silicone membrane



EMC module



Direct integration

## MATERIALS

- Stainless steel V2A, V4A
- Plastic PE 300, PVC
- Aluminum

## DIMENSIONS

- min. 10 x 10 mm
- max. 3000 x 1500 mm

## FORMS

- anything is possible

## CABLE SIZES

- min.  $\varnothing$  1 mm
- max.  $\varnothing$  50 mm

## ASSEMBLY METHOD

- screw

## TIGHTNESS

- up to IP 69K

## SYSTEM

- high degree of strain relief
- low degree of strain relief
- completely deburred (chamfer)



EN 45545-2



Less downtime,  
**more** got time

● Cable entry systems/plates



## Cable entry systems

- ★ Easy installation
- ★ Hardly any **worksteps** necessary
- ★ High **time saving**

Installation time per cable	<b>30 seconds</b>
Cables with connector	<b>yes*</b>
Spacerequirement	<b>saves space</b>
Risk chip formation during assembly	<b>minimal</b>
Number of worksteps	<b>16</b>
Number of required technicians	<b>1</b>
Resealable	<b>yes**</b>

\*referred to murrplastik® KDL variants \*\*referred to KDP/N, KDP/X

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VS.

● Conventional cable fittings



## Cable fittings

- Long installation time
- High **space requirement** necessary
- Not **resealable**

Installation time per cable	<b>2 minutes</b>
Cables with connector	<b>no</b>
Spacerequirement	<b>ample</b>
Risk chip formation during assembly	<b>substantial</b>
Number of worksteps	<b>27</b>
Number of required technicians	<b>2</b>
Resealable	<b>no</b>

Use and position of the  
**components at the  
control cabinet**

1 Without connector  
Extremely simple installation and high packing density as an alternative to cable fittings



2 With E-series connector  
Flexible, interchangeable system for cables with connector



With X-series connector  
Highly dense system in various materials and designs for cables with connectors



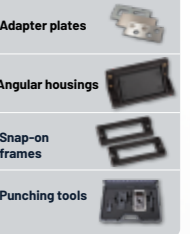
3 EMC solutions  
Earthing cable shields individually, modularly or as a system. Interference suppression with high attenuation values.



4 Strain relief  
Secure cable management for every application



Accessories  
Extensions and tools





## KDL/E+

[Go to product](#)



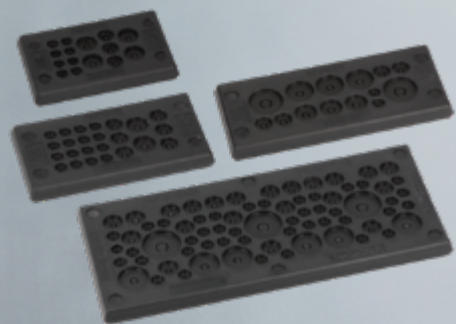
- ✓ Stackable, high packing density
- ✓ Easy assembly
- ✓ Integrated strain relief

## KDL/H-VA FDA

[Go to product](#)



- ✓ FDA regulated material
- ✓ Pressure tight up to 1 bar
- ✓ Resistant to cleaning agents and H2O2 (35%)



## KDP/Z

[Go to product](#)



- ✓ Up to IP69
- ✓ Pressure tight up to 0.5 bar
- ✓ Very flat

## KDP/N

[Go to product](#)



- ✓ Resealable
- ✓ Tool-free
- ✓ High degree of strain relief



# Simply Systems

Cable entry systems and holders - Comparison chart

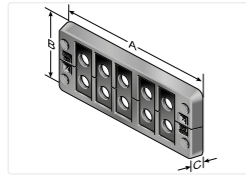
Product	Protection rating	Available sizes	Maximum packing density based on size 24	Special feature	Resealability	Lockable	For cables with connector	FDA version Food/Pharmaceuticals
KDL/E	IP 54	24	40	Extremely fast assembly	With plug / dummy grommet	With clips	✓	
KDL/E+	IP 65	6, 10, 16, 24, round, stackable, special sizes	40	Flexibly interchangeable	With plug / dummy grommet		✓	✓
KDL/C	IP 54	6, 10, 16, 24	48	Simply screw in from the front	With plug / dummy grommet		✓	
KDL/D	IP 65	6, 10, 16, 24, round, special sizes	48	Simply screw in from the front	With plug / dummy grommet		✓	✓
KDL/H	IP 66 / IP 67 / IP 69K	6, 10, 16, 24, special sizes	48	- Stainless steel, aluminum, zinc - Simply screw in from the front	With plug / dummy grommet		✓	✓
KDP/N	IP 65	24 (11 hole pattern variants), round (8 variants)	80	Self-reclosing & extremely good strain relief	✓	✓		
KDP/X	IP 65	24 (13 hole pattern variants)	29	Self-reclosing	✓	✓		
KDP/Z	IP66 / IP 69K	10, 16, 24, round, Ri2, special sizes	48	- Highly dense thanks to 2K - Very flat	With plug	With clips		✓
KDP/S	IP65 / IP 69K	All	All	Individual shapes, materials and hole patterns	✓			✓



## KDL/E+ cable entry system

Variants: 24

GO TO PRODUCT



### Product information

The flexible cable entry system for the insertion of pre-assembled cables with a frame closed at the top.

- Stackable
- Easy assembly
- High packing density
- Integrated strain relief
- Protection class: IP 65
- Thermal stability: -40 °C – +100 °C
- Fire classification: V0
- RoHS compliant
- UV resistant
- Made in Germany

suitable grommet: KDT/ZE und KDT/ZE+

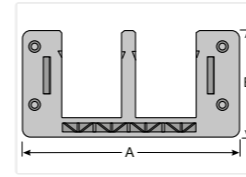
### Conformity



## KDL/E cable entry system

Variants: 7

GO TO PRODUCT



### Product information

The cable entry system for the insertion of pre-assembled cables with open top frame.

- Single-piece frame
- Easy and very quick assembly
- Snap in, screwing on is not necessarily required

- Protection class: IP 54 (with suitable grommets and cables)
- Thermal stability: -40 °C – +80 °C
- Fire classification: V0
- Material: Polyamide 6.6
- RoHS compliant
- UV resistant
- Made in Germany

- Catch hook for 1.5 – 2.0 mm plate thickness included with delivery; catch hooks for up to 4.0 mm plate thickness available
- Suitable for standard cut-outs for 24-pin and 16-pin industrial connectors
- EMC solution with discharge plate is easy to implement
- suitable grommet: KDT/ZE

### Conformity



## Cable entry grommet type KDT/ZE+

Variants: 33

GO TO PRODUCT



### Product information

Cable entry grommet for pre-assembled cables in connection with cable entry system KDL/E+

- Approved for railway technology (except special grommets)
- The grommets are retrofitted around the cable
- Strain relief even better with simple cable ties
- Thermal stability: -40 °C to 100 °C (special grommets: -40°C to 80°C)
- Fire classification: V0 (special grommets: HB)
- RoHS compliant
- UV resistant
- Made in Germany

### Conformity



## Cable entry grommet type KDT/ZE

Variants: 52

GO TO PRODUCT



### Product information

2-piece cable entry grommet for pre-assembled cables in connection with cable entry system KDL/E

- Pre-assembled cables can be easily inserted or fed through e.g. in control cabinets.
- The grommets are retrofitted around the cable
- The grommets are equipped with catch hooks that anchor themselves in the KDL/E when positioned
- Strain relief can be realized with a simple cable tie

- UL and CSA listed
- Thermal stability: -40 °C – +80 °C
- Fire classification: HB
- Material: Thermoplastic rubber
- RoHS compliant
- UV resistant
- Made in Germany

### Conformity

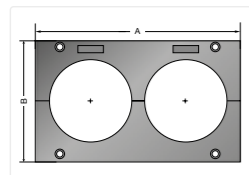




## Cable entry system, Type KDL-Jumbo

Variants: 2

GO TO PRODUCT

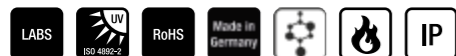


### Product information

The powerful cable entry system for the insertion of pre-assembled cables, metal pipes and corrugated conduits (EW & EWX-corrugation).

- 2-piece frame
- Very robust and completely splittable system
- For large feed-throughs
- Integrated, permanent (captive) seal
- Protection class: IP 65 (with suitable grommets and cables)
- Thermal stability: -30 °C – +100 °C
- Fire classification: V0
- Material: Polyamide 6.6, PUR
- RoHS compliant
- UV resistant
- Made in Germany
- Integrated strain relief at all grommets

### Conformity



## KDT/Z-Jumbo cable entry grommet

Variants: 9

GO TO PRODUCT



### Product information

2-piece cable entry grommet in connection with cable entry system KDL-Jumbo

- With our grommet KDT/Z- Jumbo cables from 30-65 mm can be inserted
- Grommet is placed and mounted together with the frame halves of the KDL-Jumbo around the cable
- Quick and easy strain relief with cable ties is possible
- Thermal stability: -30 °C – +100 °C
- Fire classification: V0
- Material: TPE-S
- RoHS compliant
- UV resistant
- Made in Germany

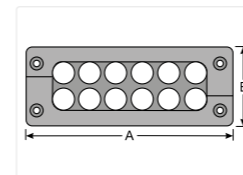
### Conformity



## KDL/D cable entry system

Variants: 15

GO TO PRODUCT



### Product information

The robust cable entry system for the insertion of pre-assembled cables

- 2-piece or 3-piece frame
- Easy assembly from the front
- No canting when mounted with control cabinet wall
- High packing density for up to 48 cables
- Integrated strain relief
- RoHS compliant
- UV resistant
- Made in Germany

Fits standard cutouts for 24-, 16-, 10- and 6-pin industrial connectors as well as two special sizes (single row and round M50) suitable grommet: KDT/X

### Conformity



Cable entry system by murrplastik®  
- Less downtime - more go time.

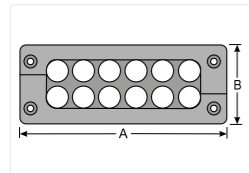
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## Cable entry system, Type KDL/C

Variants: 11

GO TO PRODUCT



### Product information

The simple splittable cable entry system for the insertion of pre-assembled cables.

- 2-piece frame
- Easy mounting from the front
- High packing density for up to 48 cables
- Integrated strain relief
- RoHS compliant
- UV resistant
- Made in Germany

Suitable for standard cut-outs for 24-, 16-, 10- and 6-pin industrial connectors  
suitable grommet: KDT/X

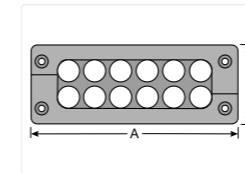
### Conformity



## KDL/H cable entry system

Variants: 17

GO TO PRODUCT



### Product information

The cable entry system for the insertion of pre-assembled cables in a very stable and robust design made of zinc die-cast or aluminum.

- 2-piece or 3-piece frame
- Easy assembly
- High packing density for up to 48 cables
- Integrated strain relief
- RoHS compliant
- UV resistant
- Made in Germany

- Suitable for standard cutouts for 24- and 16-pin industrial connectors as well as two special sizes (single row and round M50)
- suitable grommet: KDT/X

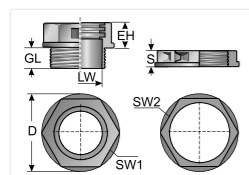
### Conformity



## KDL/D-mono cable entry system

Variants: 5

GO TO PRODUCT



### Product information

The round, splittable cable entry system for the feed-through of pre-assembled cables

- Easy assembly
- Integrated and split seal
- The split lock nut is included within the scope of delivery
- Easy strain relief with cable ties possible

- Protection class: IP 65 (with suitable grommets and cables)
- Thermal stability: -30 °C - +100 °C
- Fire classification: V0
- Material: Polyamide 6
- RoHS compliant
- UV resistant

- Suitable for standard cut-outs M25, M32, M40 and M50
- suitable grommet: KDT/X

### Conformity



## KDT/X cable entry grommets

Variants: 64

GO TO PRODUCT



### Product information

1-piece cable entry grommet for pre-assembled cables in connection with cable entry system KDL/C, KDL/D, KDL/H and KDL/H-VA

- Pre-assembled cables can be easily inserted or fed through e.g. in control cabinets.
- The grommets are retrofitted around the cable

- UL listed
- Thermal stability: -30 °C - +100 °C
- Fire classification: V0
- Material: TPE
- RoHS compliant
- UV resistant
- Made in Germany

- Double cable grommets, multi-line grommets, ASI bushings, USB-grommets and adapter grommets are not UL listed.

### Conformity



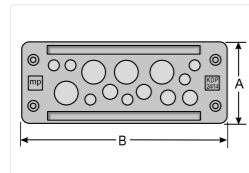


## KDP/N 24 cable entry plate, plastic

GO TO PRODUCT



Variants: 13



### Product information

Snap-in plastic cable entry plate with two elastomer plates

- Economical connection technology for tool-free wiring of equipment and machinery
- The alternative to cable fittings
- Very good strain relief
- Protection class: IP 65
- Thermal stability: -30 °C to +70 °C
- Material: Frame: Polyamide 6.6 / Seal: TPU/NBR/EPDM
- RoHS compliant
- UV resistant
- Made in Germany
- Suitable for standard cut-outs for 24-pin industrial connectors
- Can be mounted using catch-hooks (sheet thickness 1.5 mm - 2.0 mm) or with M5 screws

### Conformity

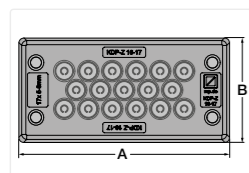


## KDP/Z cable entry plate, plastic

GO TO PRODUCT



Variants: 27



### Product information

Very flat cable entry plate made of plastic with a 2-component design and best properties

- Enormous time savings in assembly
- High packing density
- Large wire diameter ranges
- Good strain relief
- Protection class: IP69K (with matching cables)  
IP66/67
- Fire classification: HB
- Thermal stability: -30 °C to +70 °C
- Material: Frame: Polypropylene (PP) / Seal TPE
- RoHS compliant
- UV resistant
- Made in Germany

Suitable for standard cut-outs for industrial connectors  
Assembly with clips or M5 screws possible

### Conformity

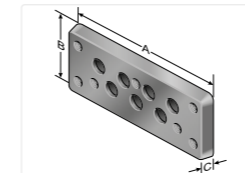


## KDP/P-Ex cable entry plate

GO TO PRODUCT



Variants: 15



### Product information

The extremely time and cost-saving KDP/P-EX is highly dense and easy and fast to install.

It is flexible and equipped with a high-performance, integrated strain relief as well as customised to your requirements via murrplastik On Demand Service. Thanks to its robustness, it is perfectly suitable for extreme areas.

- Easy assembly
- Heavy-duty integrated strain relief
- Protection class: IP 66/67/69K (with matching KDT/P-Ex grommets and cables)
- Thermal stability: -45 °C - +85 °C
- Anodized aluminum
- Fire classification: HB
- RoHS compliant
- UV resistant

### Conformity



## KDT/P-Ex cable entry grommet

GO TO PRODUCT



Variants: 22



### Product information

Cable entry grommet for pre-assembled cables in connection with cable entry system KDP/P-Ex

- The grommets are retrofitted around the cable
- Thermal stability: -45 °C - +110 °C
- Fire classification: V0
- Material: TPE
- RoHS compliant
- UV resistant
- Made in Germany

### Conformity



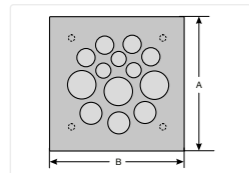
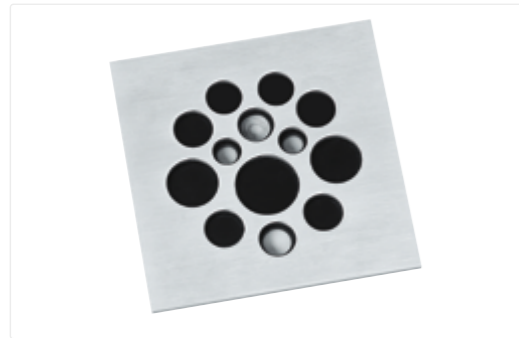




## KDP cablequick® type 90 (90x90 mm)

Variants: 1

GO TO PRODUCT



### Product information

Efficient connection technology for terminal boxes, control cabinets for tool-free introduction of actuators, sensors, measuring and control instrumentation, optoelectronic, pneumatic lines and drive technology into a control panel. The stainless steel version is particularly suitable for application in the food and chemical areas. Integrated threaded bolts mean that no screws are visible from outside. Mounting set included in delivery.

- Aluminum & stainless steel are approved in railway technology (NFPA 130)
- V4A : 1.4571
- ALU : 3.3535
- ST : 1.0037

### Conformity



## Snap-on shield-clip Type SCF-EMV

Variants: 11

GO TO PRODUCT



### Product information

The steering components in today's machine, plant and control cabinet installations are becoming more and more complex. A good EMC concept therefore gains increasing importance. murrplastik earthing and cable shielding products are designed to meet the demands for low bleeder resistance at high frequencies.

murrplastik products are characterized by their very easy handling.

- Easy, no tools required, installation on 35 mm top-hat rails
- The spring action provides uninterrupted contact pressure with the shield.
- Excellent discharge of high-frequency noise current.

### Conformity



## KDL xx/xx-EMV cable entry system

Variants: 6

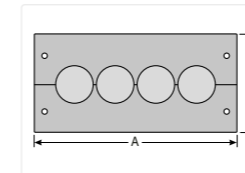
GO TO PRODUCT



### Product information

The cable entry system KDL/EMV is based on the cable entry system KDL. A conductive surface allows cable sheath interference to be discharged onto the control cabinet simply and without additional aids.

Field-related interferences are discharged by the metalization. The KDL 16 /xx-EMV types fit on cut-outs for 16-pin plug connectors, the KDL 24 /xx-EMV types fit on cut-outs for 24-pin plug connectors by Harting or Wieland.



### Conformity



## KDT/Z-EMV cable entry grommets

Variants: 27

GO TO PRODUCT



### Product information

The KDT/Z-EMV cable entry grommet is adapted to the shield diameter and fitted with a conductive textile tape to discharge interferences to the control cabinet.

Strain relief can be provided quickly and easily for cables using cable ties.



### Conformity





## Type KDP EMV module cable entry plate

Variants: 11

GO TO PRODUCT



### Product information

The KDP 24 EMV module is designed to dissipate line and field induced interference. The KDP 24 EMV modules are used in conjunction with the cable entry plates type KDP/xx 24. In order to ensure optimum performance, the EMC module is assembled in combination with the KDP/N 24 cable entry plate. While the EMC module makes direct contact with the enclosure wall on the inside of the enclosure, the KDP/xx 24 cable entry plate provides mechanical protection against dust and liquids from the environment.

The special advantages of the KDP 24 EMV modules are:

- Cable-friendly 360° shield contacting
- Large contact area with short distance
- Very easy assembly
- Compact and slim design
- Visible contact area
- Stainless steel construction



## Strain relief type ZL-fix

Variants: 8

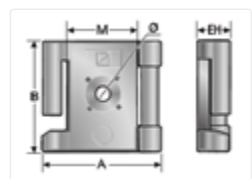
GO TO PRODUCT



### Product information

The strain relief ZL-fix may be used wherever cables, cords, wires or conduits must be relieved or routed in a way that is secure, easy and cost-effective. The strain relief ZL-fix is available in two versions, either for direct screw fastening (flat-head screw M5, not included in delivery) or for fastening on a profile with 10 mm groove width (integrated nut strap).

- Do not constrict sensitive cables such as fiber optic cables or pneumatic hoses
- No-tools fastening hook-and-loop system can be opened and closed infinitely
- Very simple handling
- Variable installation positions



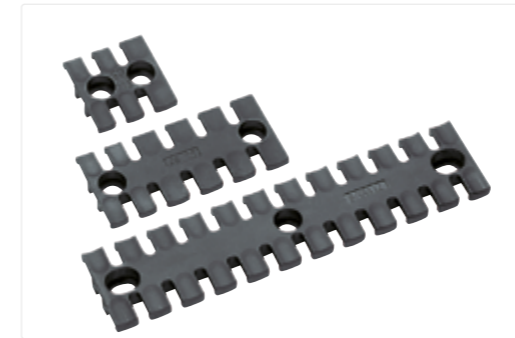
Conformity



## ZL strain relief

Variants: 13

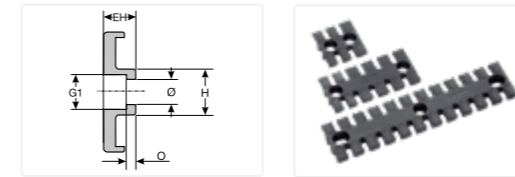
GO TO PRODUCT



### Product information

The ZL strain relief plate may be used wherever the strain of cables, cords, wires or conduits must be relieved or they are to be routed in a secure, easy and cost-effective way. The insertion of the ELB insert bushing stops the cold extrusion characteristic of plastic from affecting the secure fixing of the plate. The DH spacer sleeve is required for two-tier mounting.

- Approved for railway technology (EN 45545-2)



Conformity



## Reinforced frame type VR-VA

Variants: 1

GO TO PRODUCT



### Product information

The reinforced frame type VR-VA provides higher stability and prevents deformation of the housing wall. In combination with our metal cable entry systems (type KDL/H and KDL/H-VA).

The VR-VA is screwed to the inside of the housing with our cable entry systems.

Conformity

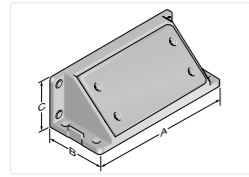




## 90° angular housing type KD-WG

Variants: 1

GO TO PRODUCT



### Product information

With the angular housing type KD-WG, cables can be inserted at a 90° angle to the control cabinet. The angular housing can either be screwed on directly or attached without tools using the snap-on frame type AR 24.

- Suitable for all 24-pin variants of the KDL/E+
- Protection class: IP65
- Made in Germany

### Conformity



## Fastening clip type BFC

Variants: 1

GO TO PRODUCT



### Product information

The BFC 5.5 fastening clip is made of flame-retardant polyamide 6. It is used to fix the cable entry plates type KDP/Z. The clip is smashed using a hammer. Special benefits of the BFC room integrity system are:

- Easy assembly from one side
- Suitable for standard drilling 5.5 mm
- Tool-free assembly possible by pressing in by hand
- High protection class achievable

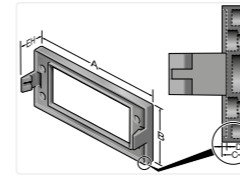
### Conformity



## Snap-on frame type AR

Variants: 1

GO TO PRODUCT



### Product information

The snap-on frame type AR 24 is used to attach fully assembled cable entry system without tools.

Is screwed to the control cabinet or housing. The fully assembled cable entry system can then be snapped into the snap-on frame without the need for tools. During disassembly (e.g. maintenance), there is no need to unscrew and screw on the KDLE+ again.

- Integrated seal
- Suitable for all 24-pin variants of the KDL/E+
- Made in Germany

### Conformity



## Dummy plug, BS-KDP-Z

Variants: 6

GO TO PRODUCT



### Product information

With the dummy plugs for the KDP/Z and KDP/ZR, entries that are no longer required are closed securely and tightly. They serve as a subsequent sealing.

### Conformity





## Hydraulic manual punch, Type SW-HG

Variants: 1

GO TO PRODUCT



### Product information

Practical manual punch without additional conduit and cylinder, ideal for workshop and assembly.

- Hydraulic punch made of high-strength aluminum
- Overload protection via overpressure valve
- Ergonomic handle, springs back automatically

Conformity



## Punching tool type SW-WR (rectangular)

Variants: 19

GO TO PRODUCT



### Product information

Several punching tools for the creation of square or rectangular cut-outs. These hole punches are delivered a plastic transport case. Also ideal for assembly employment use. Corresponding tension bolt is included in the delivery. The attachment points for the screw holes can be punch-marked during the punching process.

Conformity



# Cable entry systems and holders

# Time to change

- Less downtime - more go time.

Cable entry  
KDP/N



More info at

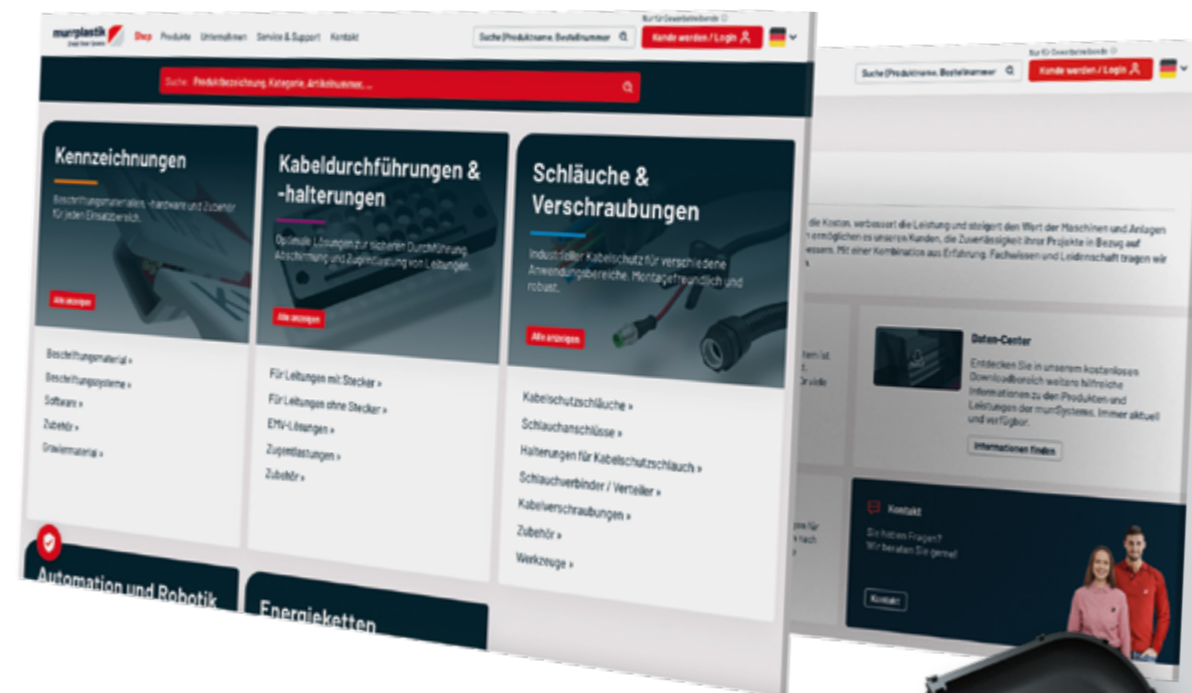
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## Webshop

# Simply Smart Systems shop.murrplastik.de

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The brand **murrplastik**<sup>®</sup>

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