

Energy Industry

The future in the best hands

● cable entry system
KDL/E+



More info at

murrplastik.com

murrplastik®
Simply Smart Systems





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 down-times as the basis for a future-proof, up-to-date corporate development.



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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, main-tenance 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.





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 and

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 under-neath. Any afterglow must not exceed 30 sec-onds.

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 after-glow must not exceed 30 seconds.



thereby closing off the opening completely fire resistant.

Description of the
Protection classes according to DIN EN 60529

An important element for housings is protec-tion of integrated elements against drilling, foreign particles and water. The various protective abilities are divided into IP protection classes (IP = International Protection). The framework conditions that a protection class must guaran-tee are laid out in DIN 40050 and IEC-EN 60529. IP protection classes 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 (1stdigit = 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 sub-stances of 2.5 mm diameter and above	The object probe of 2.5 mm (0.10 in), shall in no way penetrate.	
4	Protected against solid foreign sub-stances of 1 mm diameter and above	The object probe of 1.0 mm, 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 direc-tion 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.	
7	Protected against the effect of tempo-rary 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.	
8	Protected against the effect of perma-nent 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 for your solar and PV applications

The requirements for our broad 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 furthermore vibration, impact and tear-out resistant. In addition, they are highly dense and easy to assemble.



Energy Industry



The future in the best hands

Reliability and durability under a wide range of operating conditions are essential factors for the successful use of a wide variety of technologies in the energy sector.

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

to the product video



● cable entry system
KDL/E+





Cable entry systems for use in any conditions

The KDL/E+ cable entry system is specially designed for the requirements of the energy industry and proves itself even under the most difficult conditions.

Pre-assembled cables inserted into the frame, which is closed on one side, makes installation child's play, even in static positions or confined spaces. You can also fully rely on the KDL/E+ after installation: With integrated strain relief, ingress protection up to protection class IP 65 and an operation range of



-30 °C to +100 °C, every application is covered. Class V0 fire protection, RoHS conformity and UV resistance thanks to special plastic additives underline the quality "made in Germany".



Full overview with automated marking

With the mp-LM 3 laser marking system from murrplastik® you always have the full overview. The reliable technology requires no consumables and ensures fast, permanent marking.

The laser marks a wide range of materials easily and abrasion-free; it marks label types standard in the

energy industry, like, polycarbonate, polypropylene, stainless steel, anodized aluminum, as well as laser foils and magnetic signs.

The integration of labeling software and automated batch processing ensures reliably high and error-free output.



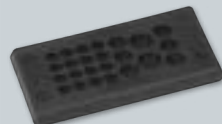


Our goal: Easy & high protection cable entry systems for quick and easy assembly

String Collector

Subsequent insertion & protection of cable bundles in high protection class

KDP/Z



KDP/ZR



SA-Jumbo



ZL-fix



Inverter

Quick and easy insertion of cables in confined spaces, high strain relief & tightness

m-seal EMC



KDL/E+



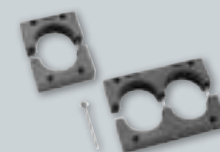
SC-EMV



Transformer

Quick and easy insertion of cables in confined spaces, high strain relief & tightness

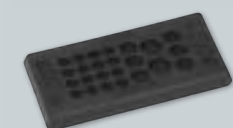
KDL-Jumbo



KDL/E+



KDP/Z



KDP/ZR



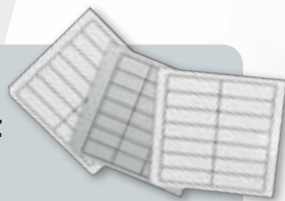


Our goal: long-term labelling
of relevant cables, conduits &
components as **labelling service**
- we supply **ready-labelled signs**
that only need to be assembled

ACS -Service



LM - Lasermatt



BS5L & BS6L



KSM





Our goal: Easy and retrofit assembly of **cable protection** against environmental factors and rodents

Module Table

Fixation, protection and bundling of cables for process-safe and long-lasting plant operation

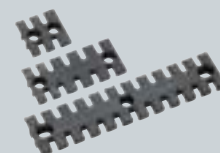
KBL



ZL-fix



ZL



Module Table

Fixation, protection and bundling of cables for process-safe and long-lasting plant operation

EWT-PP



EW-PP



EW-R-PP



EW-R-PP-LS





KDL/E+ cable entry system

Variants: 18



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

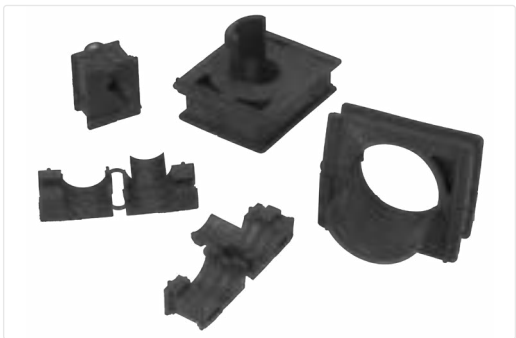
- Stackable
- Easy assembly
- High packing density
- Integrated strain relief
- Protection class: IP 65
- Thermal stability: -30 °C – +100 °C
- Fire classification: V0
- RoHS compliant
- UV resistant
- Made in Germany

Matching grommets: KDT/ZE und KDT/ZE+



Cable entry grommet type KDT/ZE+

Variants: 31



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

- Approved for railway technology (EN 45545-2 / 3x HL3)
- The grommets are retrofitted around the cable.
- Strain relief even better with simple cable ties
- Thermal stability: -40 °C – +100 °C
- Fire classification: V0
- RoHS compliant
- UV resistant
- Made in Germany

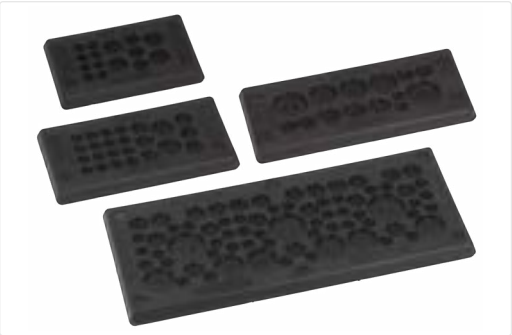


Conformities and approvals



KDP/Z cable entry plate, plastic

Variants: 27



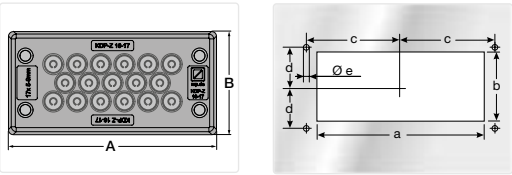
Very flat cable entry plate made of plastic with a 2-component design and best properties

- 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

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



Conformities and approvals



Cable entry plate, round Type KDP/ZR

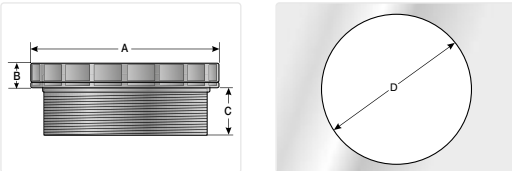
Variants: 14



The KDP/ZR cable entry plate is made of modified Polypropylene and is a round entry and fastening system for cables without plugs and pneumatic hoses such as those used in control cabi-nets, plant or machine construction. Wherever quick assembly is required with high packing density and cables must be pro-ected, the cable insertion system is used.

The special benefits of the KDP/ZR are:

- Enormous time savings in assembly
- High packing density
- Standardized cut-out dimensions
- Large wire diameter ranges
- Very flat design

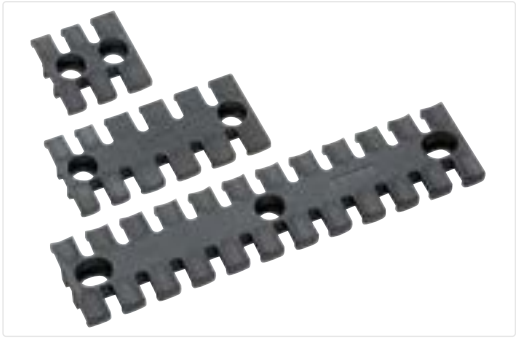




ZL strain relief

Variants: 13

[Go to product](#)

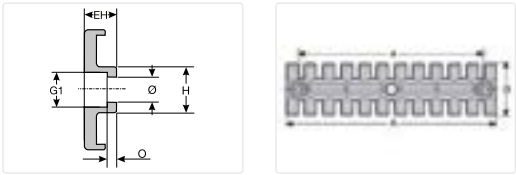


Product information

The ZL strain relief plate may be used wherever the strain of cables, hoses, 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)

Other types are available for mounting on C-rails and profile rails.



Conformities and approvals



Strain relief type ZL-fix

Variants: 8

[Go to product](#)



Product information

The strain relief ZL-fix may be used wherever cables, hoses, 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 (flathead 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



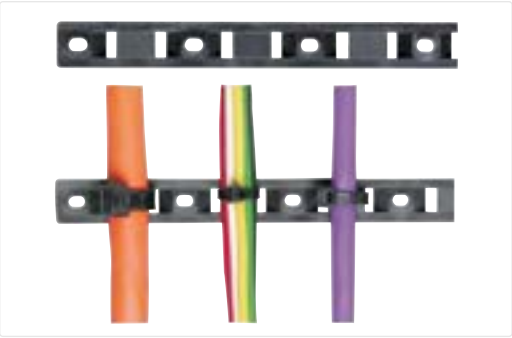
Conformities and approvals



KBL cable tie rail

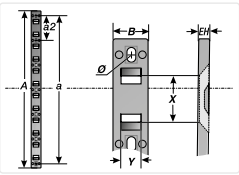
Variants: 2

[Go to product](#)



Product information

Quick and easy fitting of cables.
Cable ties may be pushed on if a rail is already fitted.



Conformities and approvals





Cable protection conduit, type EW-PP

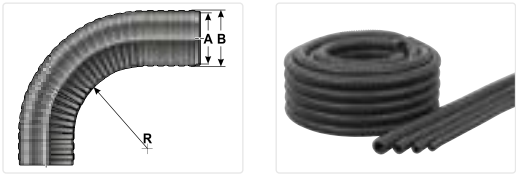
Variants: 22



The self-extinguishing EW-PP cable protection conduits are made of specially modified polypropylene. EW-PP cable protection conduits are characterized by excellent chemical resistance and good impact resistance. The EW-PP is also suitable for static and dynamic applications with medium to high mechanical loads.

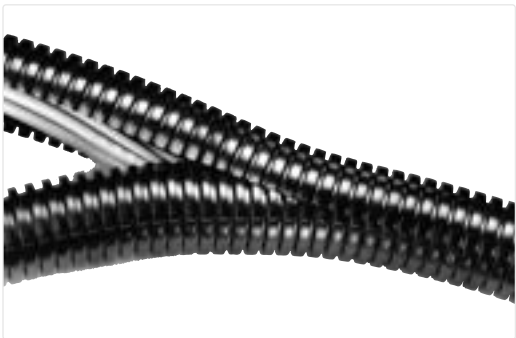
Applications:

- Plant engineering
- Mechanical engineering
- Chemical plants



Cable protection conduit type EWT-PP split-flex

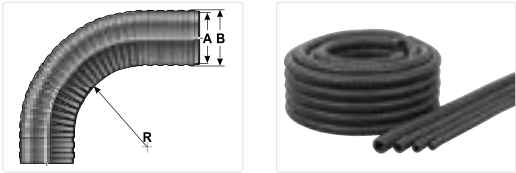
Variants: 9



The EWT-PP cable protection conduits are made of specially modified polypropylene. The material is phosphor and cadmium-free. For static applications involving light to medium mechanical loads.

The EWT-PP cable protection conduits consist of a two-piece slotted corrugated conduit system and feature the following advantages:

- Corrugated conduits can be opened and closed at any time.
- Mounting of pre-assembled cables
- Retrofitting or repair in mechanical and plant engineering



Conformities and approvals



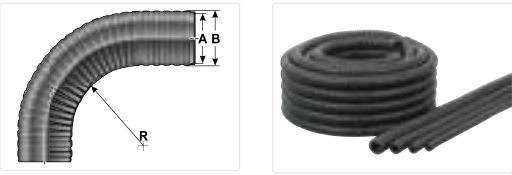
Cable protection conduit, type EW-R-PP

Variants: 26



The EW-R-PP cable protection conduits are made of specially modified as well as elaborately processed recycled polypropylene. EW-R-PP cable protection conduits are characterized by excellent chemical resistance and good impact resistance. The EW-R-PP is also suitable for static and dynamic applications with medium mechanical loads.

- Combines environmental protection and quality
- Flexible conduit for simple dynamic applications
- Medium mechanical load
- UV resistant
- For mechanical engineering and chemical plants



Conformities and approvals

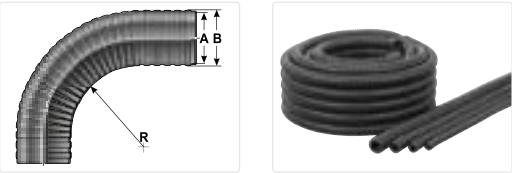


Cable protection conduit, type EW-R-PP-LS

Variants: 9



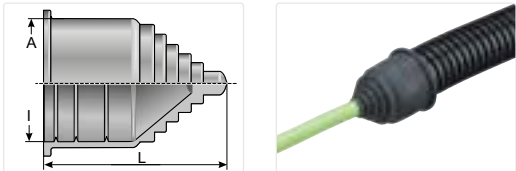
- Simple, lightweight design - for the installation of pre-assembled cables, retrofitting or even repair of cables.
- Flexible conduit for simple dynamic applications
- Medium mechanical load
- Resource-saving through recycled material
- For mechanical engineering and chemical plants





Type ET (end grommet)

Variants: 16



The type ET end grommet is made of TPE and is used, for example, to close off the open end of a protective conduit, or as centering device for exiting cables.

The end grommet features the following advantages:

- Opening of end grommet variable (depending on the cable diameter used)
- Easy assembly
- Fixing of end grommet to the cable protection conduit using ribs running round the inside



Type GF (braided conduit)

Variants: 24



The GF braided conduits are made of specially modified polyamide 6.6. With this material and the special braiding, the conduit is extremely durable and elastic in both the radial and axial directions.

The GF braided conduit is used to bundle and protect a large number of cables and individual wires of all types. The elastic braiding means that configuration of the conduit can be very variable.

The SAT-GF conduit connection serves as an end piece for the braided conduits.

Additional advantages of the GF braided conduit include:

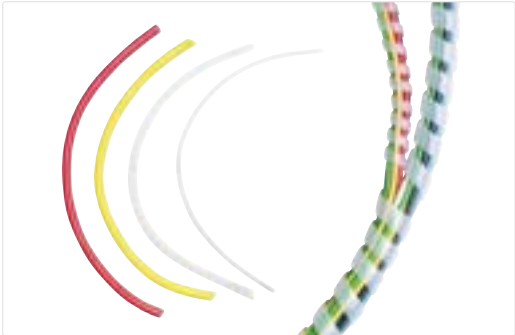
- Very good mechanical and thermal resistance
- Good chemical resistance
- High flexibility
- Very high abrasion resistance

Conformities and approvals



Type SB/SBF (Spiral tape)

Variants: 12



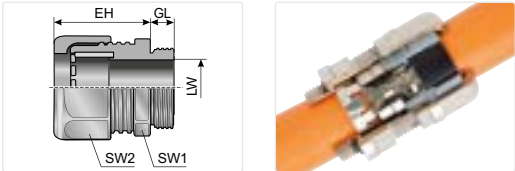
Spiral tapes are used to bundle cable harnesses efficiently and simply. The spiral tapes also protect the insulation of the wires. Branches of single wires or looms of cables may be made at any place. Bundling in the range from 0.08 in - 3.93 in (2 - 100 mm) is possible with just three sizes. The SBF consists of flame-retardant material.

Conformities and approvals



Cable fitting type m-seal EMC (EMV)

Variants: 9



With the m-seal EMC (EMV) cable fittings, simple radial and axial movement of the cable are possible, even at contact location. The contact finger surfaces with rounded edges prevent damage to the conductor.

In addition, the large surface on the contact finger makes low contact resistance possible, even on loosely woven cables (the contact area does not press into the conductor).

The m-seal EMC (EMV) cable fitting features the following advantages:

- Large seal and clamping area
- With integrated strain relief
- High protection class IP 68
- High contract rating, even at vibration conditions
- Very simple and rapid assembly without tools
- Suitable for the highest requirements of today's technology
- Very good shielding attenuation

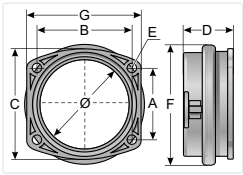




Type SA-Jumbo (flange connection)

Variants: 8

[Go to product](#)



Conformities and approvals



Product information

The SA-Jumbo flange connections are made of specially modified polyamide. The material is halogen, phosphor and cadmium-free.

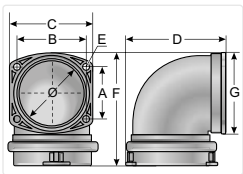
The SA-Jumbo flange connections feature the following advantages:

- Split ring makes assembly easy
- Tightness of IP 52 without DS seal
- Tightness of IP 65 with DS seal (DS seal must be ordered separately if required)
- Dimensionally stable connection ring ensures high tear-out strength
- Safety clips ensure protection against connection ring opening by itself
- O-ring for fastening flange included in delivery

Type KFW-Jumbo (90° flange connection)

Variants: 8

[Go to product](#)



Conformities and approvals



Product information

The KFW-Jumbo flange connections are made of specially modified polyamide. The material is halogen, phosphor and cadmium-free.

The KFW-Jumbo flange connections feature the following advantages:

- Split ring makes assembly easy
- Tightness of IP 52 without DS seal
- Tightness of IP 65 with DS seal (DS seal must be ordered separately if required)
- Dimensionally stable connection ring ensures high tear-out strength
- Safety clips ensure protection against connection ring opening by itself
- O-ring for fastening flange included in delivery

Laser labeling system mp-LM 3

Variants: 1

[Go to product](#)



Conformities and approvals



Product information

Economical laser labeling system for the automated processes of individual print jobs for the project-specific labeling of most murrplastik plastic labels.

Scope of delivery

- Laser labeling system
- USB cable
- Power cord
- 2 m extraction hose
- Receiving container (catch tank)
- Separator plates for mixed loading (3 pcs)
- Operating Manual
- CD with licensing information

Technical data

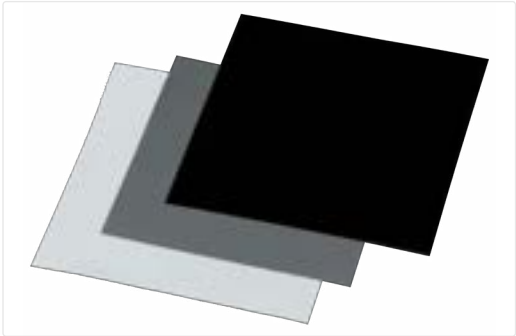
- Laser power: 3 watts
- Laser source: Nd:YAG / pulsed
- Wavelength emissions: 1064 nm
- Cooling: Air
- Printable area: 120 x 120 mm
- Operation duration: ca. 52 s
- (1 frame KS 4/18 L, TrueType Arial, 342 characters, 6 ea. label)
- Laser class: 1
- Ports: USB, Ethernet
- Input voltage: 100 – 240 V AC
- Dimensions (HxWxD): 475x795x300 mm
- Weight: 17.5 kg
- Storage temperature: min. 0 °C / max. 50 °C (max. 24h)
- Transport: The unit should not be exposed to shocks or vibrations.
- Operating temperature: min. 15 °C / max. 35 °C
- Humidity: 10 – 85 % without condensation



ELF/P laser label foil premium

Variants: 3

[Go to product](#)



The double-layer ELF laser label foil is ideal for the production of custom adhesive labels and displays a reliable, permanent adhesion on Polyolefine (PE/PP), slightly oily or powder coated surfaces.

Complete cover of high-contrast base colors. Labeling and cutting is done with a murrplastik laser system.

- Halogen-free polyacrylate foil
- Very good chemical and thermal resistance
- Self-extinguishing after 15 seconds
- Available in various colors
- Custom configuration of the labels
- Forgery-proof: Cannot be detached without destruction

External suction system

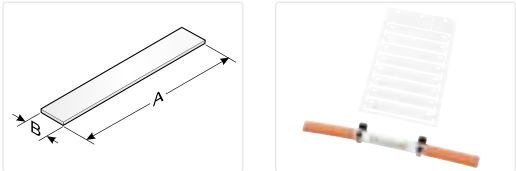
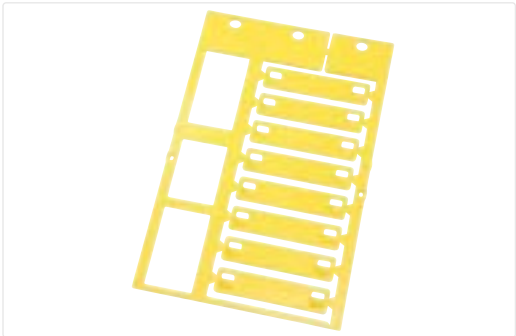
For laser inscribing of ELF/T laser label foil, you must scrub the exhaust air or route it outside (observing statutory provisions) as a precautionary measure to ensure that the strong odors that the machine can produce do not endanger the health of employees. An external suction system can be connected directly to the MP laser labeling system using an adapter.



KSM label plate

Variants: 10

[Go to product](#)



High-quality, halogen-free label for subsequent direct labeling of wires.
The KSM label, made of PC materials, was developed for the direct and subsequent labeling of cords and cables.
Only cable ties are required for mounting.

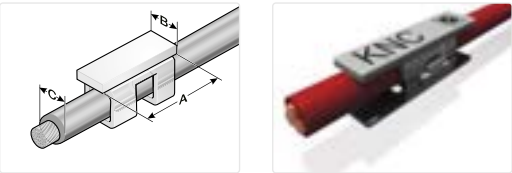
Conformities and approvals



KNC label plate

Variants: 24

[Go to product](#)



High-quality, halogen-free label for subsequent direct labeling of wires. The KNC label, made of PC materials, was developed for the direct and subsequent labeling of cords and cables. No tools required.
Available in four sizes for wire cross-sections of 2.0 - 7.2 mm.

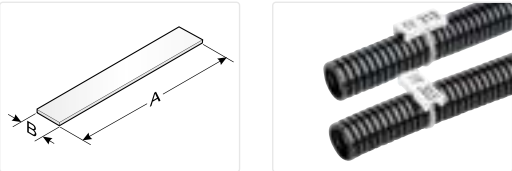
Conformities and approvals



BS Label plate

Variants: 4

[Go to product](#)



High-quality, halogen-free label plate for single-line and multi-line inscription.
The BS label plate is mounted directly with a cable tie.

BS 5 and BS 5-2 are suitable for lengthwise mounting.
BS 6 can be mounted lengthways and across.

Cable tie max. width mm: 3

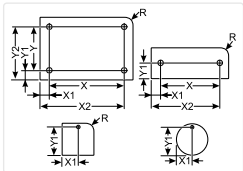
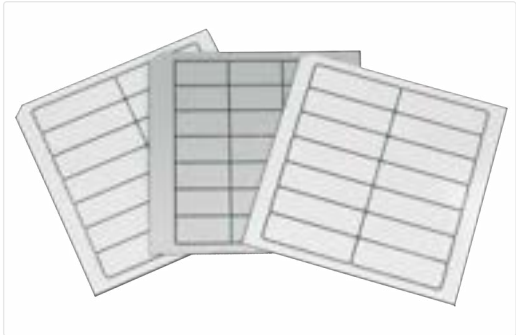




LM Laser Mat

Variants: > 400

[Go to product](#)



Laser Mat is a double-layer material with a UV resistant, colored outer layer for marking with a murrplastik laser system.

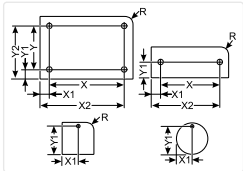
- Custom configuration
- Various colors
- Various geometries and holes/hole patterns
- More than 400 variants available in total
- Three different carrier materials available
- Thickness: 0.8 mm

A suction and filter unit is absolutely necessary to comply with legal regulations on health protection.

LAM Laser Alumat

Variants: > 350

[Go to product](#)



Conformities and approvals



Laser Alumat consists of coated aluminum, suitable for laser engraving. The surface is coated for laser engraving and has very good chemical resistance. After laser marking with a murrplastik mp-LM series laser marking system the engraving appears in black.

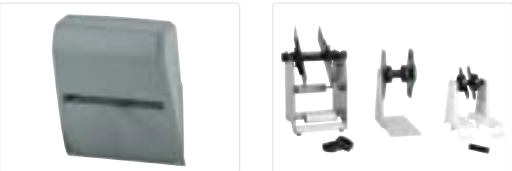
- Custom configuration
- Various colors
- Various geometries and holes/hole patterns
- More than 350 variants available in total
- Three different carrier materials available
- Material thickness of 0.5 mm or 1.0 mm available

A suction and filter unit is absolutely necessary to comply with legal regulations on health protection.

mp-TM EOS2

Variants: 1

[Go to product](#)



Conformities and approvals



Compact label printer, when room at the workspace is tight. For label rolls up to a diameter of 155 mm.

- Compact label printer
- Simple and clear operation
- Large color touch screen
- Tool-free replacement of wear parts
- Automatic centering of the label roll
- Easy cleaning without additional tools

Scope of delivery

- mp-TM EOS2 label printer
- Power cord
- USB data cable
- Operating Instructions
- CD (driver with instructions)

Optional accessories

- Cutters
- External unwinder

NOT suitable for ST-BT-H railway technology, taped and ST-ECO heat-shrink conduits.

mp-TM SQUIX 4/M

Variants: 999

[Go to product](#)



Conformities and approvals



Industrial thermal transfer printer with print head and centered material feed.

Preferred for heat-shrink conduit, labels and KC series materials.

- No print head adjustment for materials of varying widths.
- Also for printing of narrow and thick continuous-feed materials
- Printing speed may be reduced

Scope of delivery

- mp-TM SQUIX 4/M printer
- Power cord
- USB data cable
- Operating Instructions
- CD (driver with instructions)

Optional accessories

- Cutters
- Perforation blade
- External unwinder
- Internal roller mounting system



ST-ECO continuous

Variants: 21

[Go to product](#)



Polyolefine heat-shrink tube type ST-ECO continuous-feed
Flat, continuous-feed heat-shrink tube for labeling cables with excellent properties for the thermal transfer method.
This heat-shrink tube is particularly suitable for applications in the fields of switching cabinet construction, shipbuilding and the labeling of wiring harnesses.

- Properties**
- Excellent printing results
 - Greatly flame retardant in accordance with UL224/CSA
 - Ready to use with thermal transfer printers
 - Shrink ratio 3:1
 - Any length of the heat-shrink tube
 - Shrink temperature >90°C
 - Application temperature -55°C to +135°C

Standard colors: White, yellow
Available upon request: Blue, red, green



TES - self-laminating cable tag

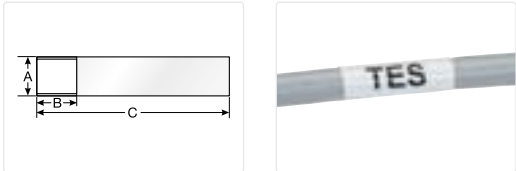
Variants: 15

[Go to product](#)



These self-laminating cable tags are ideal for labeling cables, cords and wiring. They provide a printable, colored field on the upper edge and can be removed easily from the backing paper after printing. As an additional protection from external environmental factors, the lettering is wrapped with self-adhesive laminate.

In addition, the backing paper is printed with precisely dimensioned stripes for optimum sensor detection. The special film is only 0.05 mm thick and is highly flexible and supple. This ensures that the cable tag will not peel back up, even when used for cables with small diameters. The high-transparency laminate ensures the printed lettering remains easy to read.



TES self-laminating cable markers are suitable for use with pavonis thermal transfer printers and the mp-TM series (with external unwinder).

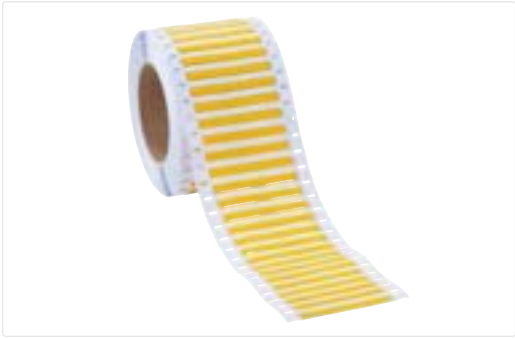
Conformities and approvals



ST-ECO taped

Variants: 34

[Go to product](#)



Polyolefine (PO) heat-shrink tube, type ST-ECO
Flat, thin-walled heat-shrink tube.
Flame retardant, in accordance with UL224. Shrink ratio 3:1
Particularly well-suited for use in labeling and identification processes.

- Properties**
- Excellent printing results
 - Greatly flame retardant in accordance with UL224
 - Ready to use with thermal transfer printers
 - Shrink temperature >90°C
 - Application temperature -55°C to +135°C

Standard colors: White, yellow
Available upon request: Blue, red, green



Conformities and approvals





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