

**PROVERTHA<sup>®</sup>**  
CONNECTORS, CABLES & SOLUTIONS

# M12 and M8

## Products



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# M12 and M8 High Performance Connectors

The functionally reliable data transmission in operating conditions with highest requirements secure the M12 and M8 high performance cable connectors. Key factor is a special crimp flange / crimp sleeve system, that secures the reliable 360 ° shielding and the vibration and torsion-proof shield connection and cable strain relief by means of the hexagonal crimp. Together with the special housing design, as well as the use of turned crimp contacts and the use of high quality materials, the high performance of these connectors is guaranteed.

Plastics certified according to EN 45 545-2 for railway applications.

## M12 Connector 90°

- 360° Shielding
- Simple assembly
- 8 cable exit positions easily adjustable (8 x 45°)
- Secure fixing of the selected cable exit position
- Torsion- and vibration-proof strain relief for high requirements
- Codings: A-5, A-8, B, D, X

In 8 steps with 45° rotatable



315°



0°



45°



90°

⋮

## M12 X-Code 180° and 90° for secure 10 GBit Ethernet

### Version crimp flange / crimp sleeve 180° and 90°

- 360° shielding
- Very compact dimensions
- Functionally reliable due to vibration-proof crimp technology for signals + screen
- Torsion- and vibration-proof shield connection
- Torsion and vibration-proof strain relief



### Version cable gland 180° and 90°

- Wide cable clamping range from 4 to 9 mm.

## M8 for secure Industrial Ethernet in miniature format

### Version crimp flange / crimp sleeve

- 360° shielding
- Very compact dimensions
- Functionally reliable due to vibration-proof crimp technology for signals + screen
- Torsion- and vibration-proof shield connection
- Torsion and vibration-proof strain relief



### Version cable gland

- Wide cable clamping range from 3,5 to 5,5 mm

## M12 Power L-Code for cables up to 14 mm (wires up to 2,5 mm<sup>2</sup>)

- Full metal housing with 360° shielding
- Vibration-proof crimp technology for the conductors
- Cable strain relief for cable D: 7-14 mm
- Wire size: 0.5 - 2.5 mm<sup>2</sup> / AWG 20 - 14
- Certified plastics acc. to EN 45545-2 for railway applications



Coming soon

## M12 Rear Panel Connectors 180° and 90°

- Rear panel field assembly connector for cables
- Functional reliability from the cabinet door to the device

### M12 rear panel connectors crimp flange/ crimp sleeve 180° and 90° 360° shielding and vibration-/torsion-proof

- Very compact dimensions
- Torsion- and vibration-proof strain relief and shield termination due to crimp flange/crimp sleeve system
- Torsion- and vibration-proof shield connection
- Torsion- and vibration-proof strain relief
- Certified plastics acc. to EN 45545-2 for railway applications
- Codings: A-5, A\_8, B, D and X



### M12 rear panel connectors cable gland 180° und 90°

Wide cable clamping range from 4 – 9 mm.

## M12 Cable assemblies Assembled or overmolded

### Fully shielded cable assemblies for Industrial Ethernet/Profinet, Profibus, CAN bus/DeviceNet and DRIVE-CLiQ.

- Functionally reliable data transmission due to crimp technology and metal housing
- Shielding and strain relief vibration-proof with crimp flange/crimping sleeve
- 360° EMI / RFI shielding by means of crimp flange/crimp sleeve system
- Highly flexible Profibus UL drag chain cable, Profinet Type C cable, CAN drag chain cable
- M12 hexagon combi knurl locking nut for defined tightening torque
- Certified qualification acc. to DIN EN 61373 for railway applications
- Cable lengths in m: 0.3 / 0.5 / 0.75 / 1 / 1.5 / 2 / 3 / 5 / 10



## M12 Cable connectors cable gland

- Shielded and wide cable clamping range 4-9 mm
- Suitable for cable diameter 4-6.5 mm and 5.5-9 mm
- Fully shielded solution
- Compact dimensions
- Reliable strain relief for high requirements with cable gland
- Codings: A-5, A-8, B, D, X
- Straight and 90 ° versions



## M12 Cable connectors crimp flange/crimp sleeve

- 360° shielding and vibration- / torsion-proof
- Very compact dimensions
- Functionally reliable due to vibration-proof crimp technology for signals + screen
- Torsion and vibration proof shield connection
- Torsion and vibration proof strain relief with CF system
- Codings: A-5, A-8, B, D, X
- Certified plastics acc. to EN 45545-2 for railway applications



## M12 crimp device connectors and assemblies

- Shielded housing
- Pre-assembled with UL strand
- Compact external dimensions
- Degree of protection IP 67: only screw-locked or protection class IP 67 not screw locked
- Wireclip-ready for process-reliable automatic soldering of strands on solder wave
- Non-rotating assembly due to surfaces on the housing
- Codes: A-5, A-8, B, D, X (planned)



## Gender Changer

### For secure interfaces on the cabinet door

- Fully shielded metal housing
- Very compact dimensions
- Functionally reliable due to vibration-proof crimp
- Rotation-proof assembly due to surfaces on the housing
- Certified plastics acc. to EN 45 545-2 for railway applications



## M12 90° Adapter

- Compact dimensions for applications with smallest space
- Male - Female, Female – Female, Male -Male
- Various versions for Profi bus, DeviceNet/ CAN-Bus, Industrial Ethernet (Profinet)
- Customized versions upon request



## M12 V4A Stainless steel

- Compact dimensions
- Reliable solutions with 360° shielding
- Reliable shielding and strain relief with the cable gland
- Vibration-proof crimp technology for the signal contacts
- Codings: A-5, A-8, B, D and X
- Cable connectors and panel mount connectors
- V4A Stainless steel
- Applications in process and process engineering, medical technology, clean rooms, food industry, vacuum technology and shipbuilding



## Fully shielded M12 T and M12 Y distributors Profibus- und CAN/DeviceNet version

- 360° -EMI / RFI shielding
- Degree of protection IP 67
- Profibus: M12 B code, 5-pole, Pin 1-4 connected
- CAN / DeviceNet: M12 A code, 5-pin, pin 1-5 connected
- Version for direct interface connection with rotatable M12 connection
- Version with fastening straps for wall mounting
- Option for DIN rail mounting as service or transfer point
- Customized versions on request
- For harsh environmental conditions due to full metal housing



## M12 Connector crimp flange conduit connection NW 10 Secure data transmission and cable routing

- 360 ° -EMI / RFI shielding
- Functionally reliable data transmission by crimp technology for signals and shield
- Safe cable routing in the connectable conduit
- Torsional and vibration-proof strain relief and shield connection due to crimp flange / crimp sleeve system
- Degree of protection IP 67 / IP68 (conduit side)
- Codings: A-5 and D; other codings on request
- Straight and angled versions
- Recommended conduit: PMA PCST-10B.50



## M12 tool case

- Stores tools compact+ safe
- Equipment individually
- Stripping tools
- Crimp tool and positioner for contacts  
– Assembly tool for crimp flange MDC
- Crimp tool and crimp inserts for crimp sleeve
- Assembly tool for crimp flange
- Torque wrench
- High quality aluminum case



# About us

We have been a **successful producer of safe connection technology** in industrial networks with extremely high requirements for more than 30 years. We are providing even more safety in the data and signal transfer by the use of high-quality electromechanical components.

Complex connection systems such as **connectors, electromechanical components and cable assemblies**, as well as **plastics processing, tooling and customer-specific contract manufacturing** are areas of our expertise.

The combination of a very high product quality as a result of our quality management, **certified according to QS 9000, DIN ISO 9001 and ISO/TS 16949**, and the manageable costs, due to our production in Hungary, make us a competent partner where price and performance match.

## Contact

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