

# Innovations 2025

Spring

A 3D rendering of various industrial components and wiring. It includes a control cabinet, a robotic arm, a conveyor system, and various cable management solutions like cable glands and connectors. Orange lines trace the paths of the cables throughout the system.

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Our product brands ÖLFLEX®, UNITRONIC®, ETHERLINE® and HITRONIC®. In all variations for every requirement.

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## Cables

Power and control cables

NEW



Click or Scan – More information  
available online



## ÖLFLEX® CLASSIC 128 H BK SC

**What is new?** The power cables are now also available for direct current applications in the insulation colours red and white..

### Benefits

- Easy handling and installation due to the flexible variant.
- Halogen-free and highly flame-retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- High electrical safety thanks to 4000 V test voltage.
- “GN/YE” variants with green-yellow core insulation for connecting the protective conductor.
- Variants “RD” and “WH” with red or white core insulation in accordance with DIN EN 60445 for direct current systems.

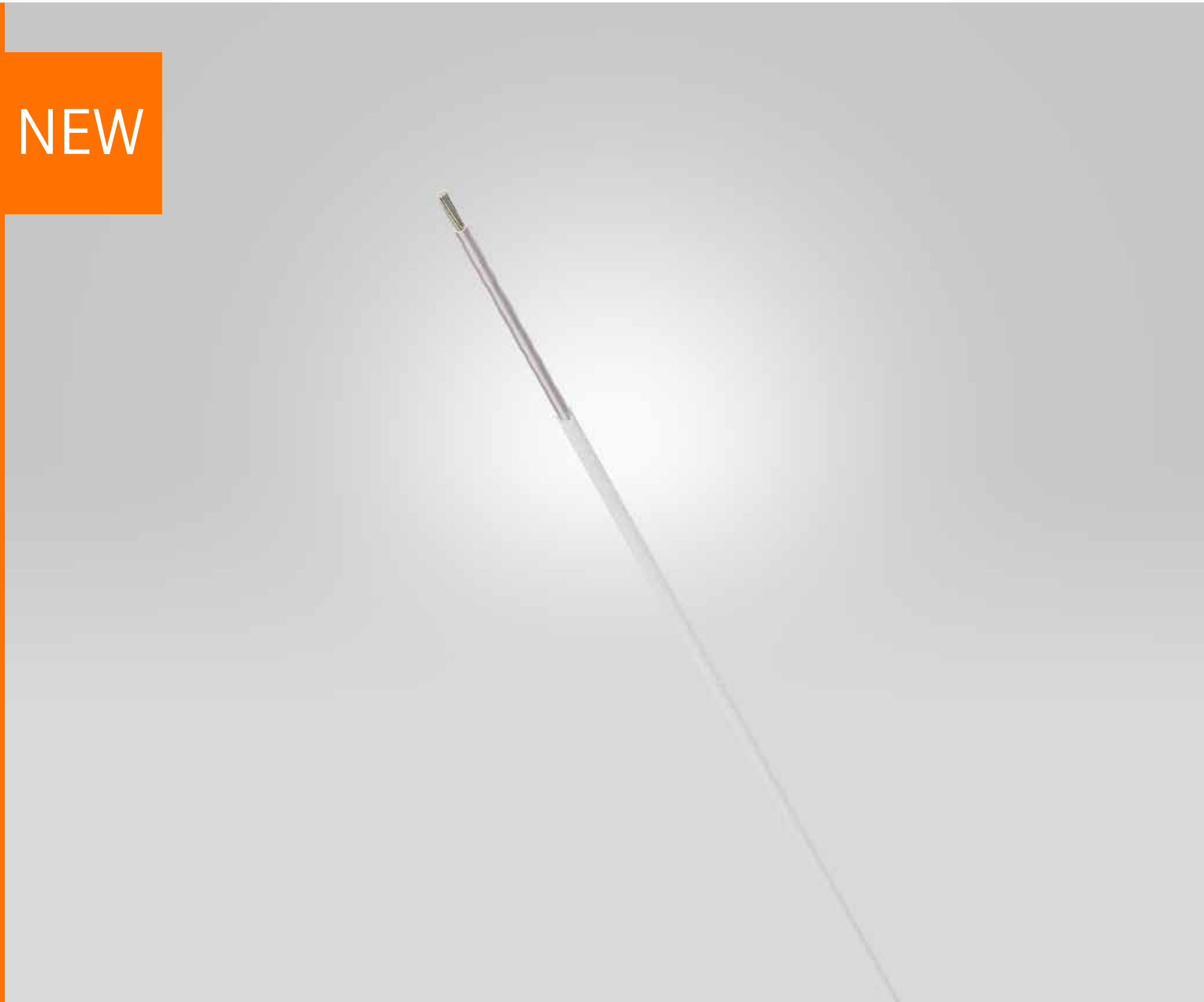
### Application ranges

- For structured building cabling for fulfilling special fire protection requirements.
- For direct current applications in the low-voltage range.
- For industrial plants in which power is distributed via a direct current grid.
- For universal use for wiring machine-internal and cross-plant control circuits.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry and damp rooms.
- Suitable for medium mechanical stress.

## Cables

Power and control cables

NEW



## ÖLFLEX® HEAT 700 SC

Heat-resistant single core, up to +700 °C, 300/500 V, nickel-plated copper conductor, glass fibre core insulation/outer sheath, for power supply in hot environments.

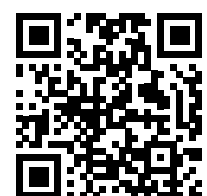
### Benefits

- Extremely heat-resistant up to +700 °C, thanks to perfectly matched materials: nickel-plated copper conductor, core insulation made of multiple glass fibre covering and outer sheath made of glass fibre braid.
- Compared to a pure nickel conductor, the fine-wire, nickel-plated copper conductor achieves better electrical conductivity, higher dielectric strength and also allows smaller conductor cross-sections to be selected.
- Halogen-free, flame-retardant materials reduce the risk of flame propagation in the event of a fire.

### Application ranges

- For the power supply connection of devices and machines in extremely hot environments.
- Typical areas of application are heating modules, electric heating appliances, heating cabinets, electric cookers and night storage heaters.
- For fixed installation and occasional flexing.
- Can be used in dry rooms.

Click or Scan – More information available online



## Cables

Power and control cables

NEW



## ÖLFLEX® AQUA 510 P

Durable and robust PUR power cable for aquaculture, reduced algae and mussel infestation, UV and ozone resistant, ammonia resistant, suitable for use in seawater.

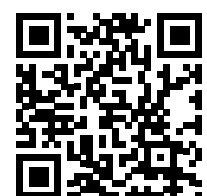
### Benefits

- Outer sheath made of a special PUR compound is resistant to ammonia, UV and ozone as well as seawater.
- Shiny, smooth outer casing surface reduces algae and mussel infestation, is dirt-repellent and easy to clean.
- Tested according to standards for use in fresh water up to a water depth of 10 m and a water temperature of 40 °C.
- The very robust cable design allows use in subpolar, temperate, subtropical and tropical climate zones.
- The reinforced outer sheath reduces the risk of damage under increased mechanical load.
- Durable, resistant product thanks to the outer sheath PUR material that is resistant to abrasions, notches and cuts.
- Low-capacitance core insulation for long transmission paths.

### Application ranges

- Suitable as a flexible power or extension cable.
- Typical areas of application are aeration systems for aquaculture, moorings in harbours, fountain systems, construction sites, camping, event technology and agriculture.
- For fixed installation and occasional flexing.
- Can be used in dry, wet and especially in harsh and oily environments.
- Outer sheath made of a special PUR compound is water-resistant and suitable for permanent underwater use.
- The PUR outer sheath withstands high mechanical loads.
- The PUR outer sheath is insensitive to mineral oil-based lubricants and is chemically resistant in many cases.
- Suitable for outdoor use.

Click or Scan – More information available online





## Cables

Power and control cables

NEW



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## Extension and compensating cables, paired

**What is new?** We now offer thermocouple cables for the temperature range up to +1200 °C and as thermocouple element type N. We have also added radiation-resistant variants to our compensating cables.

### Benefits

- Clear identification of the cable type based on the article name. Thermocouple cables: Abbreviation of the thermocouple (“K”, “N”, ...). Thermoelectric cables: Abbreviation of the thermocouple supplemented by an X (“JX”, “LX”, ...). Compensating cables: Abbreviation of the thermocouple supplemented by a C and, if applicable, an abbreviation for different compensating materials (“KCA”, “RCB/SCB”, ...).
- Thermocouple cables can be used both directly as a thermocouple in a thermocouple element and as a reliable connection between the connection point and the reference junction.
- Thermoelectric and power cables provide a reliable connection between the connection point and the cold junction.
- Thermocouple and thermoelectric cables are made of the same alloy as the thermocouple. They correspond to accuracy class 1 or 2 according to IEC 60584, whereby class 1 offers the higher accuracy.
- Thermocouple cables are designed for use up to the maximum temperature of the thermocouple, while thermoelectric cables are calibrated in the standardised application range.
- Compensating cables use materials that have similar thermoelectric properties to the thermocouple element but are less expensive. They are calibrated in the standardised application range and correspond to accuracy class 2 in accordance with IEC 60584.
- Numerous dimensions and alloys available for a wide range of applications.
- Available in variants for applications with temperatures up to +1200 °C as well as for applications with increased radiation exposure, such as medical applications.

### Application ranges

- For transmitting the thermoelectric voltage of thermocouple elements in temperature measurement technology.
- For temperature measurement in places where non-contact temperature measurement is not possible or practical.
- For use with the SILVYN® HIPROJACKET and SILVYN® SSUE protective conduits.
- For use with the FLEXIMARK® stainless steel FCC marking system.
- For fixed installation and occasional flexing.

## Cables

Power and control cables

NEW



Click or Scan – More information available online



## Extension and compensating cables, multi-paired

**What is new?** We now offer thermocouple cables for the temperature range up to +1200 °C and as thermocouple element type N. We have also added radiation-resistant variants to our compensating cables.

### Benefits

- Clear identification of the cable type based on the article name. Thermocouple cables: Abbreviation of the thermocouple („K“, „N“, ...). Thermoelectric cables: Abbreviation of the thermocouple supplemented by an X („JX“, „LX“, ...). Compensating cables: Abbreviation of the thermocouple supplemented by a C and, if applicable, an abbreviation for different compensating materials („KCA“, „RCB/SCB“, ...).
- Multi-pair thermoelectric and compensating cables bundle several thermocouples in one cable. This saves costs and space and simplifies installation, as several measuring points are connected with one cable.
- Thermocouple cables can be used both directly as a thermocouple in a thermocouple element and as a reliable connection between the connection point and the reference junction.
- Thermoelectric and power cables provide a reliable connection between the connection point and the cold junction.
- Thermocouple and thermoelectric cables are made of the same alloy as the thermocouple. They correspond to accuracy class 1 or 2 according to IEC 60584, whereby class 1 offers the higher accuracy.
- Thermocouple cables are designed for use up to the maximum temperature of the thermocouple, while thermoelectric cables are calibrated in the standardised application range.
- Compensating cables use materials that have similar thermoelectric properties to the thermocouple element but are less expensive. They are calibrated in the standardised application range and correspond to accuracy class 2 in accordance with IEC 60584.
- Numerous dimensions and alloys available for a wide range of applications.
- Available in variants for applications with temperatures up to +1200 °C as well as for applications with increased radiation exposure, such as medical applications.

### Application ranges

- For transmitting the thermoelectric voltage of thermocouple elements in temperature measurement technology.
- For temperature measurement in places where non-contact temperature measurement is not possible or practical.
- For use with the SILVYN® HIPROJACKET and SILVYN® SSUE protective conduits.
- For use with the FLEXIMARK® stainless steel FCC marking system.
- For fixed installation and occasional flexing.

## Connectors

Rectangular connectors

NEW



## EPIC® H-A 3

**What is new?** The rectangular connector insert is now available in a cost-optimized variant.

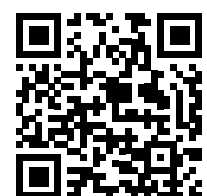
### Benefits

- Easy to assemble due to straight conductor insertion.
- Service-friendly screw connection enables assembly without special tools.
- The small design size make it suitable for use in limited spaces.
- Wide variety of suitable housing variants.
- UL certification according to technical data enables the product to be used in the North American market.

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- For use with housings from the EPIC® H-A 3 series.
- Suitable for outdoor use, subject to the temperature range.

Click or Scan – More information available online





## Connectors

Rectangular connectors

NEW



Click or Scan – More information  
available online



## EPIC® H-BE 6 Screw termination

**What is new?** The rectangular connector insert is now available in a cost-optimized variant.

### Benefits

- Inserts from the EPIC® H-BE series are regarded as classics in industry and are ideal for use at higher voltages and currents.
- In the EPIC® H-BE series, inserts of different connection types can be combined with one another (screw, crimp, cage spring or push-in) within the same size.
- Service-friendly screw connection enables assembly without special tools.
- Made of robust polycarbonate (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).
- Can be used in railway vehicles in accordance with standards for selected articles (fire behaviour test in accordance with DIN EN 45545-2:2016-02, requirement sets R22 and R23, hazard levels HL1, HL2 and HL3).
- UL certification according to technical data enables the product to be used in the North American market.
- Also certified to UL 508 A/UL 2237 for applications in control cabinets (depending on article).
- Available with or without wire protection. The wire protection enables stranded wires without conductor end sleeves to be connected directly.
- Wide variety of suitable housing variants.

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For transmission of control signals to actuators.
- Typical applications include platform, lighting and lifting technology.

Further variants available in the online shop.

## Connectors

Rectangular connectors

NEW



## EPIC® H-BSS 4

4+PE rectangular connector insert with screw connection, extremely compact size, powerful up to 35 A, made of non-flammable plastic (to UL94 V-0).

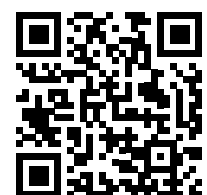
### Benefits

- High power up to 35 A despite extremely space-saving design for very small devices.
- Service-friendly screw connection enables assembly without special tools.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For use with the rectangular connector housings from the EPIC® H-B series.

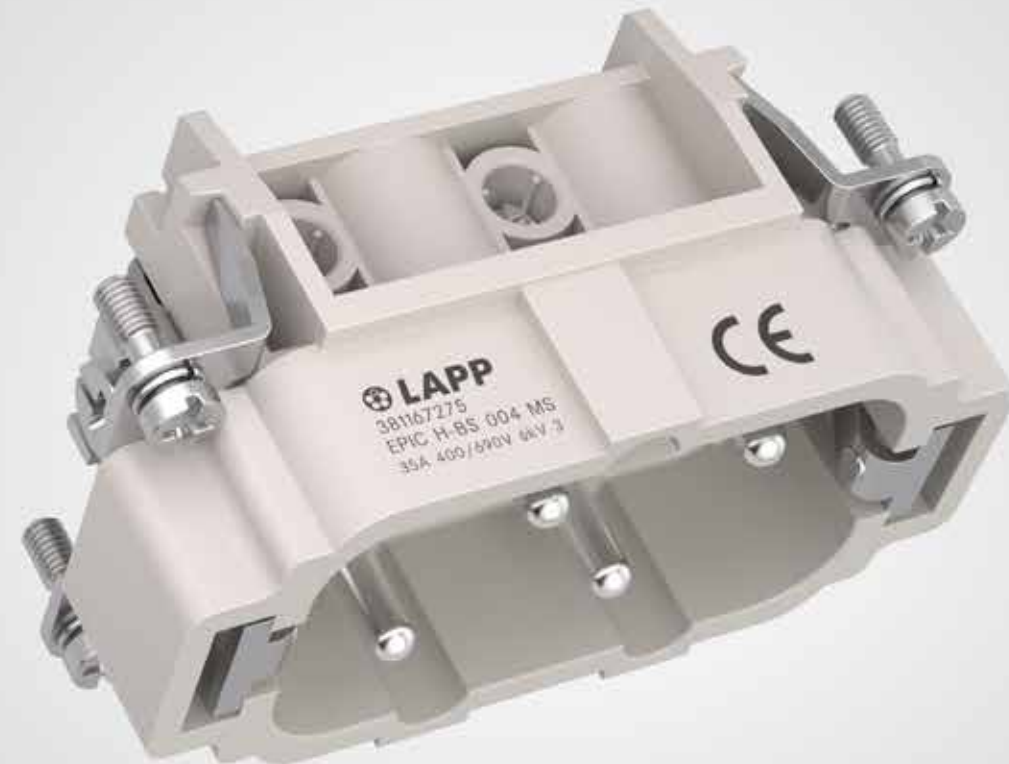
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## Connectors

Rectangular connectors

NEW



## EPIC® H-BS 4

4+PE rectangular connector insert with screw connection, compact size, powerful up to 35 A, made of non-flammable plastic (to UL94 V-0).

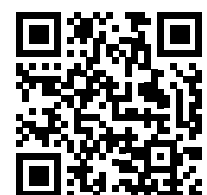
### Benefits

- High power up to 35 A despite extremely space-saving design for very small devices.
- Service-friendly screw connection enables assembly without special tools.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For use with the rectangular connector housings from the EPIC® H-B series.

Click or Scan – More information  
available online



## Connectors

Rectangular connectors

NEW



## EPIC® H-BS 6

**What is new?** The rectangular connector insert is now available in additional variants and has been cost-optimized.

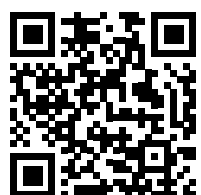
### Benefits

- High power up to 35 A despite extremely space-saving design for very small devices.
- Service-friendly screw connection enables assembly without special tools.
- Can be used in railway vehicles in accordance with standards for selected articles (fire behaviour test in accordance with DIN EN 45545-2:2016-02, requirement sets R22 and R23, hazard levels HL1, HL2 and HL3).
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For use with the rectangular connector housings from the EPIC® H-B series.

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## Connectors

Rectangular connectors

NEW



## EPIC® H-EEE 40

40+PE rectangular connector insert with crimp termination, very high contact density, high number of poles in a very small space, made of non-flammable plastic (to UL94 V-0).

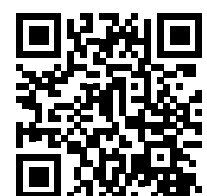
### Benefits

- Inserts from the EPIC® H-EEE series have a very high contact density and are based on the proven EPIC® H-BE series.
- The EPIC® H-EEE inserts with turned contacts enable a high number of poles in a very small space.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Suitable for conductor cross-sections from 0.14 to 4.00 mm².
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For transmission of control signals to actuators.
- For use with the rectangular connector housings from the EPIC® H-B series.

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## Connectors

Rectangular connectors

NEW



## EPIC® H-EEE 64

64+PE rectangular connector insert with crimp termination, very high contact density, high number of poles in a very small space, made of non-flammable plastic (to UL94 V-0).

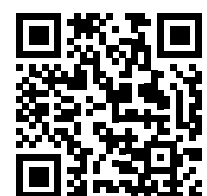
### Benefits

- Inserts from the EPIC® H-EEE series have a very high contact density and are based on the proven EPIC® H-BE series.
- The EPIC® H-EEE inserts with turned contacts enable a high number of poles in a very small space.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Suitable for conductor cross-sections from 0.14 to 4.00 mm².
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For transmission of control signals to actuators.
- For use with the rectangular connector housings from the EPIC® H-B series.

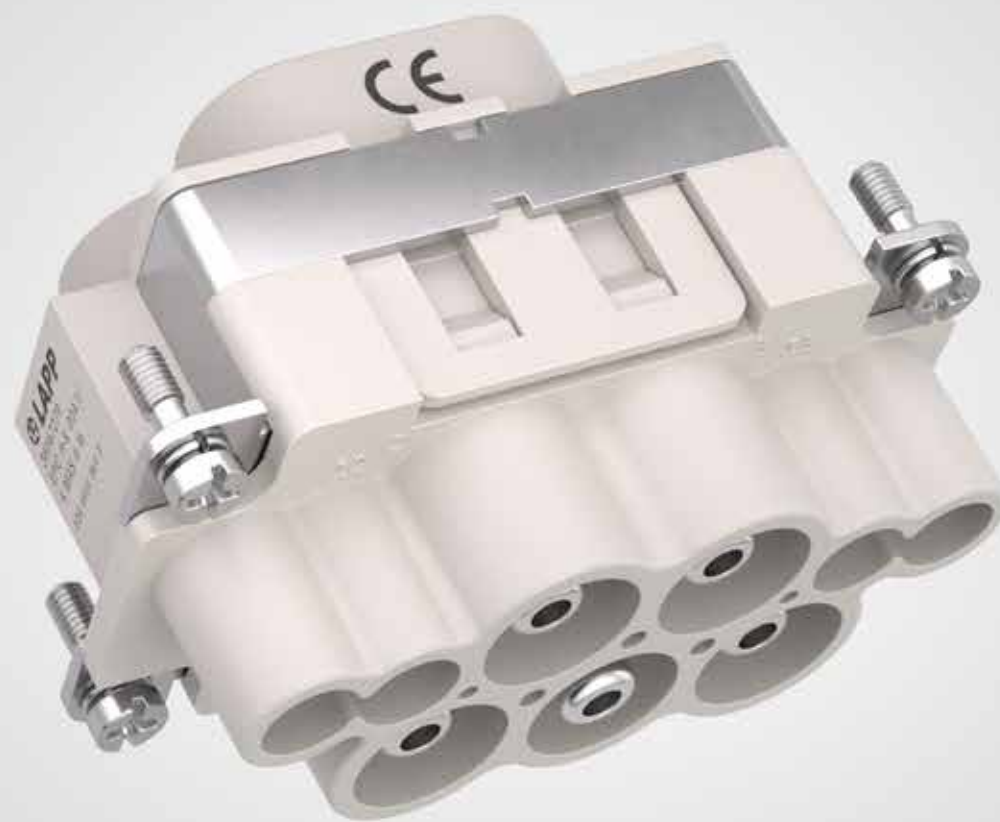
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## Connectors

Rectangular connectors

NEW



## EPIC® H-K 4/4

Rectangular connector insert with 4+PE power contacts and 4 signal contacts, with axial screw and cage clamp closure, made of non-flammable plastic (to UL94 V-0).

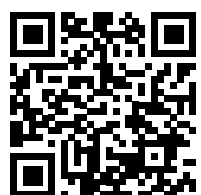
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Signal contacts: A cage spring connection enables assembly without special tools and establishes a vibration-proof connection between the contact and the cable. Strands can be connected with or without an end sleeve.
- Power contacts: Axial screw termination technology allows service-friendly connection without a special crimping tool, saves costs and is suitable for detachable connections.
- Easy to assemble due to straight conductor insertion.
- The small design size make it suitable for use in limited spaces.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

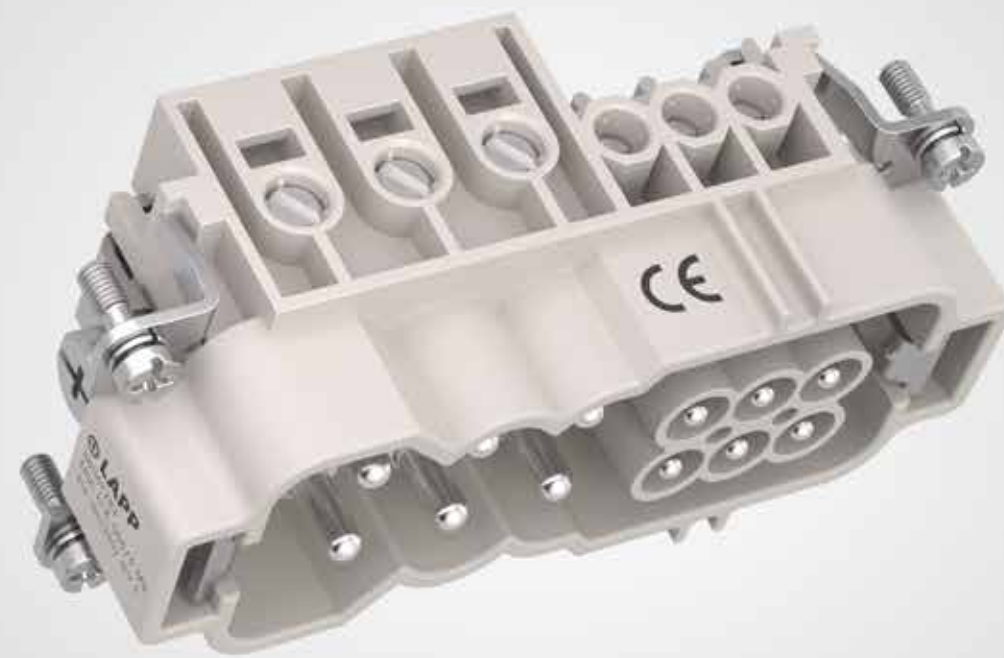
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## Connectors

Rectangular connectors

NEW



## EPIC® H-K 6/6 Screw termination

Rectangular connector insert with 6+PE power contacts and 6 signal contacts, with screw connection, made of non-flammable plastic (to UL94 V-0).

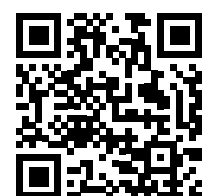
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Service-friendly screw connection enables assembly without special tools.
- Easy to assemble due to straight conductor insertion.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

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available online





## Connectors

Rectangular connectors

NEW



## EPIC® H-K 6/6 Axial screw termination

Rectangular connector insert with 6+PE power contacts and 6 signal contacts, with screw and axial screw connection, made of non-flammable plastic (to UL94 V-0).

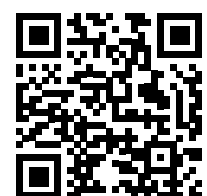
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Signal contacts: Easy to service screw connection enables assembly without special tools.
- Power contacts: Axial screw termination technology allows service-friendly connection without a special crimping tool, saves costs and is suitable for detachable connections.
- Easy to assemble due to straight conductor insertion.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

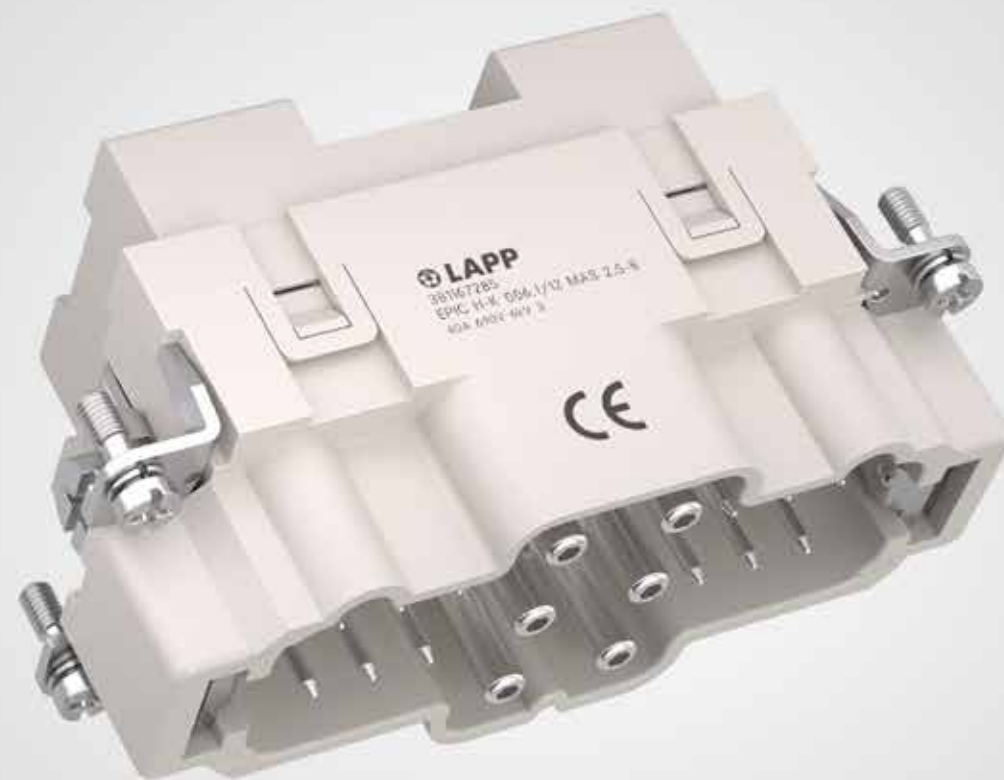
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## Connectors

Rectangular connectors

NEW



## EPIC® H-K 6/12

Rectangular connector insert with 6+PE power contacts and 12 signal contacts, with screw and axial screw connection, made of non-flammable plastic (to UL94 V-0).

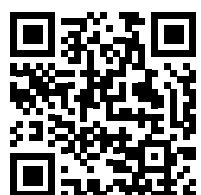
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Signal contacts: Easy to service screw connection enables assembly without special tools.
- Power contacts: Axial screw termination technology allows service-friendly connection without a special crimping tool, saves costs and is suitable for detachable connections.
- Easy to assemble due to straight conductor insertion.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

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available online



## Connectors

Rectangular connectors

NEW



## EPIC® H-K 6/36

Rectangular connector insert with 6+PE power contacts and 36 signal contacts, with crimp termination, made of non-flammable plastic (to UL94 V-0).

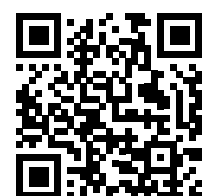
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

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## Connectors

Rectangular connectors

NEW



## EPIC® H-K 8/0

8+PE rectangular connector insert with axial screw connection, made of non-flammable plastic (to UL94 V-0).

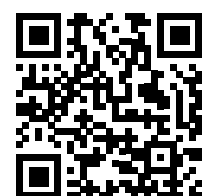
### Benefits

- Axial screw termination technology allows service-friendly connection without a special crimping tool, saves costs and is suitable for detachable connections.
- Simple cable connection using an Allen key.
- Easy to assemble due to straight conductor insertion.

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- For use with the rectangular connector housings from the EPIC® H-B series.

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available online





## Connectors

Rectangular connectors

NEW



## EPIC® H-K 8/24

Rectangular connector insert with 8+PE power contacts and 24 signal contacts, with crimp termination, made of non-flammable plastic (to UL94 V-0).

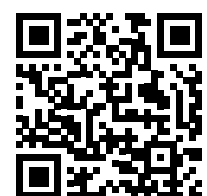
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

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## Connectors

Rectangular connectors

NEW



## EPIC® H-K 12/2

Rectangular connector insert with 12+PE power contacts and 2 signal contacts, with crimp termination, made of non-flammable plastic (to UL94 V-0).

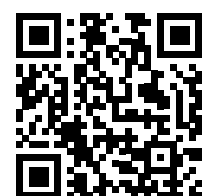
### Benefits

- Combination insert for high power supply and simultaneous signal transmission.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- For use with the rectangular connector housings from the EPIC® H-B series.

Click or Scan – More information  
available online



## Connectors

Rectangular connectors

**NEW**



## EPIC® H-Q 5

**What is new?** The rectangular connector insert is now available in a cost-optimized variant.

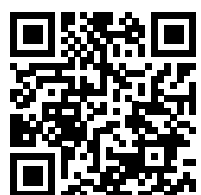
### Benefits

- High power up to 30 A thanks to the compact arrangement of the 5 power contacts.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Protective earth (PE) can be connected in two ways: the “PE-S” variant can be used with a PE screw contact; the “PE-C” variant with a PE crimp contact (depending on article).
- Special PE crimp contact enables automated assembly of a completely vibration-proof connector (depending on article).
- Can be connected to market-standard connectors.

### Application ranges

- Can be connected to market-standard connectors.
- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For use with many EPIC® rectangular connector housings.

Click or Scan – More information available online



## Connectors

Rectangular connectors

NEW



## EPIC® H-Q 7

**What is new?** The rectangular connector insert is now available in a cost-optimized variant.

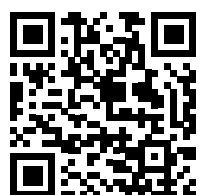
### Benefits

- Compact contact arrangement enables 7 contacts + 1 PE contact in little assembly space.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Protective earth (PE) can be connected in two ways: the “PE-S” variant can be used with a PE screw contact; the “PE-C” variant with a PE crimp contact (depending on article).
- Special PE crimp contact enables automated assembly of a completely vibration-proof connector (depending on article).
- Can be connected to market-standard connectors.
- Suitable for conductor cross-sections from 0.14 to 2.50 mm<sup>2</sup>.

### Application ranges

- For connecting devices and machines to a power supply in various applications.
- Suitable for wiring inside control cabinets.
- For use with many EPIC® rectangular connector housings.

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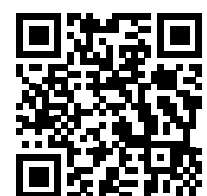
## Connectors

Rectangular connectors

NEW



Click or Scan – More information  
available online



## EPIC® H-Q AG

Panel-mount base of the EPIC® H-Q series (without insert), polyamide plastic, with central lever, for assembling a rectangular connector.

### Benefits

- The panel-mount base can be connected to many of the most popular hoods on the market.
- With open base for cable entry into the housing or control cabinet.
- High stability thanks to impact-resistant polyamide.
- Locking takes place via a plastic central lever.
- Meets protection class IP 65 when locked.

### Application ranges

- For protecting the connector insert against environmental influences.
- For connecting devices and machines to a power supply in various applications.
- Typical areas of application are electric motors and servo drives.
- For use with rectangular connector inserts in the EPIC® H-Q series.
- Withstands high environmental and mechanical stress.

## Connectors

Rectangular connectors

NEW



## EPIC® H-Q MAG

Panel-mount base of the EPIC® H-Q series (without insert), made of powder-coated or nickel-plated die-cast zinc, with central lever, for assembling a rectangular connector.

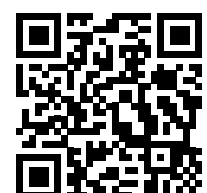
### Benefits

- The panel-mount base can be connected to many of the most popular hoods on the market.
- With open base for cable entry into the housing or control cabinet.
- Article names with the suffix “BK” are black die-cast zinc housings with a powder-coated surface that promise high robustness and temperature resistance.
- Article names with the suffix “EMC” are zinc die-cast housings with a nickel-plated surface that provide optimum protection against electromagnetic interference (EMC).
- Locking takes place via a stainless steel central lever.
- Meets protection class IP 65 when locked.

### Application ranges

- For protecting the connector insert against environmental influences.
- For connecting devices and machines to a power supply in various applications.
- Article names with the suffix “EMC” are specially designed for environments in which electromagnetic compatibility (EMC) is required.
- Typical areas of application are electric motors and servo drives.
- For use with rectangular connector inserts in the EPIC® H-Q series.
- Withstands high environmental and mechanical stress.

Click or Scan – More information available online



## Connectors

Rectangular connectors

NEW



Click or Scan – More information  
available online



## EPIC® H-Q MTG

Two-part hood with straight cable outlet, made of powder-coated or nickel-plated die-cast zinc, without insert, for assembling a rectangular connector.

### Benefits

- The hood can be connected with many standard housings (panel-mount base, surface-mount base or cable coupler hoods).
- The two housing parts that can be screwed together simplify the installation of the plug connection insert.
- The protective earth (PE) can be screwed directly to the housing. Article names with the suffix “BK” are black die-cast zinc housings with a powder-coated surface that promise high robustness and temperature resistance.
- Article names with the suffix “EMC” are zinc die-cast housings with a nickel-plated surface that provide optimum protection against electromagnetic interference (EMC).
- With space-saving female thread for use with metric cables or conduit glands.
- Locking takes place using a central lever on the counter-housing.
- Meets protection class IP 65 when locked.

### Application ranges

- For protecting the connector insert against environmental influences.
- For connecting devices and machines to a power supply in various applications.
- Article names with the suffix “EMC” are specially designed for environments in which electromagnetic compatibility (EMC) is required.
- Typical areas of application are electric motors and servo drives.
- For use with rectangular connector inserts in the EPIC® H-Q series.
- Withstands high environmental and mechanical stress.

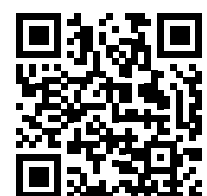
## Connectors

Rectangular connectors

NEW



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available online



## EPIC® H-Q MTS

Two-part hood with lateral cable outlet, made of powder-coated or nickel-plated die-cast zinc, without insert, for assembling a rectangular connector.

### Benefits

- The hood can be connected with many standard housings (panel-mount base, surface-mount base or cable coupler hoods).
- With side cable entry for orderly cable laying and to prevent the cable from bending too much.
- The two housing parts that can be screwed together simplify the installation of the plug connection insert.
- The protective earth (PE) can be screwed directly to the housing.
- Article names with the suffix “BK” are black die-cast zinc housings with a powder-coated surface that promise high robustness and temperature resistance.
- Article names with the suffix “EMC” are zinc die-cast housings with a nickel-plated surface that provide optimum protection against electromagnetic interference (EMC).
- With space-saving female thread for use with metric cables or conduit glands.
- Locking takes place using a central lever on the counter-housing.
- Meets protection class IP 65 when locked.

### Application ranges

- For protecting the connector insert against environmental influences.
- For connecting devices and machines to a power supply in various applications.
- Article names with the suffix “EMC” are specially designed for environments in which electromagnetic compatibility (EMC) is required.
- Typical areas of application are electric motors and servo drives.
- For use with rectangular connector inserts in the EPIC® H-Q series.
- Withstands high environmental and mechanical stress.



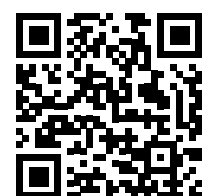
## Connectors

Rectangular connectors

NEW



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available online



## EPIC® Protective covers for H-Q

Plastic protective cover for closing unplugged EPIC® H-Q rectangular connectors, protection against dirt and moisture, with and without sealing.

### Benefits

- Protects the plug connector from dust, dirt and moisture if there is no connection with a mating connector.
- Allows protection class IP 65 due to the reliable sealing of the housing.
- Protective cover available with and without sealing. If the plug connection to be protected already includes a sealing, a protective cover without sealing should be selected.

### Application ranges

- For use with the rectangular connector housings from the EPIC® H-B series.

## Connectors

Circular connectors

NEW



## EPIC® M12 Screw Cap

Plastic protective cap, for screwing on, for all M12 plug connections (regardless of mechanical coding).

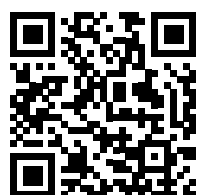
### Benefits

- Protects the plug connection from dust when not plugged in.
- Compatible with all M12 plug connections, regardless of the mechanical coding.
- Can be used for both built-in and assembled plug connections. Simple screw-on fastening.
- Available as plug and socket variants.

### Application ranges

- For use with M12 plug connections.

Click or Scan – More information available online



## Connectors

Circular connectors

NEW



## EPIC® POWER M 12L Screw termination

**What is new?** The L-coded M12 power connectors are now also available in a shielded version with a metal housing for optimum EMC protection.

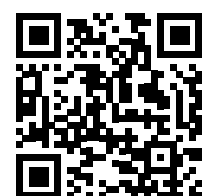
### Benefits

- High stability thanks to impact-resistant polyamide or die-cast zinc metal housing.
- High power up to 16 A despite extremely space-saving design for very small devices.
- The mechanical L-coding of the connector face prevents incorrect plugging with the mating connector.
- The service-friendly screw connection makes assembly possible without a special tool, and is suitable for connections which need to be detached again.
- Plug connections with metal housings have an electrically conductive coating. They offer optimum protection against electromagnetic interference (EMC) and dissipate interference signals with low impedance (depending on the item).
- When connected, protection class IP 67 can be achieved.
- Available in different designs.

### Application ranges

- For direct current applications in the low-voltage range.
- For power supply to smaller devices (e.g. decentralised I/O modules, smaller motors).
- Also suitable as the power supply in the PROFINET network (M12L is regarded as a standardised power interface).
- Shielded plug connections with metal housings are particularly suitable for environments where electromagnetic compatibility (EMC) is required.
- Good oil and chemical resistance.

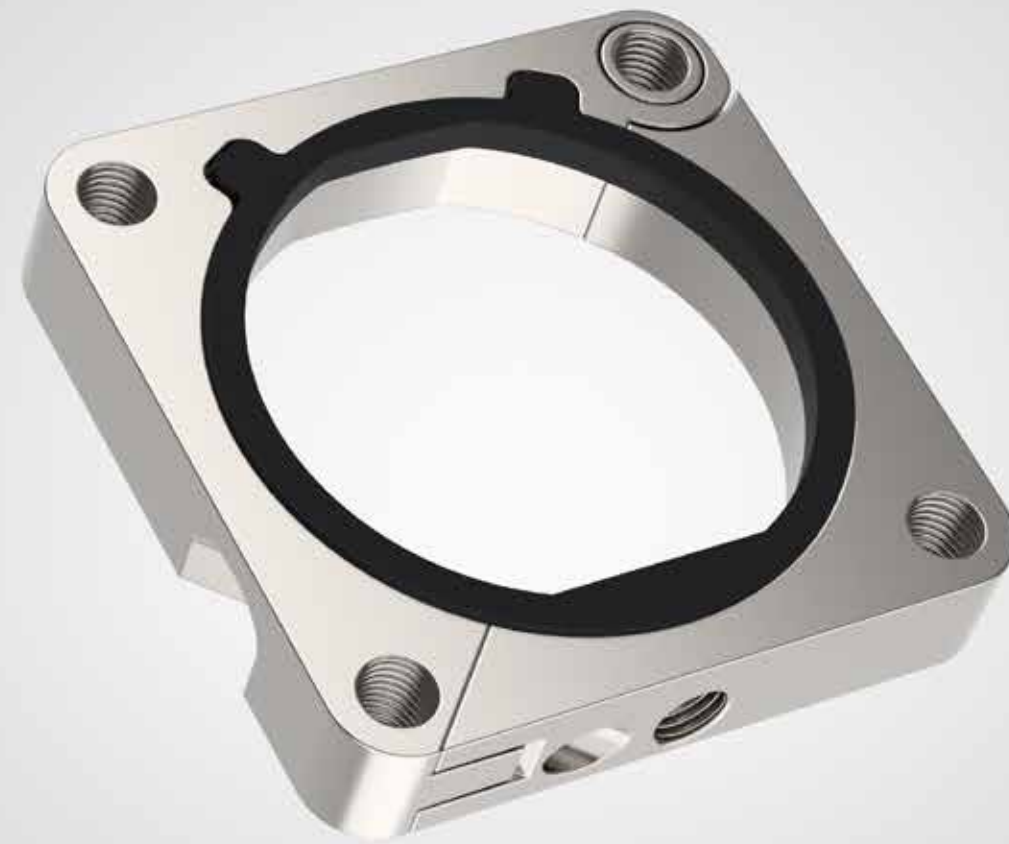
Click or Scan – More information available online



## Connectors

Circular connectors

NEW



## EPIC® M23P Mounting flange

Mounting flange for attaching EPIC® M23P series cable and coupling connectors to control cabinets, connection plates or industrial robots; retrofitting possible.

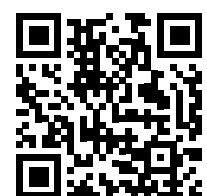
### Benefits

- Stable mounting of the plug connectors on the screw-on surface ensures a vibration-proof connection.
- Mounting flange can be retrofitted to plug connections and easily mounted to threaded boreholes using 4 fastening screws. Mounted sealing ring enables optimum sealing.
- Stability thanks to die-cast zinc metal housing.

### Application ranges

- For mounting on control cabinets, connection plates or industrial robots.
- For use with the EPIC® M23P series cable and coupling plugs.

Click or Scan – More information available online





## Connectors

Circular connectors

NEW



## EPIC® M23P A3 Quickflex

Rotatable and angled M23 motor connector for servomotors, Quickflex quick-locking system, voltages up to 1000 V, in clean design, mechanically robust.

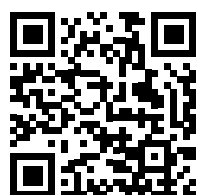
### Benefits

- Rotatable outlet on the motor allows an adjustable, defined outlet angle and offers maximum connection flexibility.
- Innovative design allows high voltages up to 1000 V.
- Thanks to its reinforced wall thickness, the plug connection is mechanically robust, insensitive to shock and vibration and therefore extremely reliable.
- Quickflex quick-locking system enables simple connection to the counterpart. Locking takes place after just a quarter of a turn. Quickflex can be plugged in with market standard plug connections.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the marking rings of the EPIC® M23P series.

Click or Scan – More information available online



## Connectors

Circular connectors

NEW



## EPIC® M23P D6 Quickflex

Compact and powerful M23 cable connector, Quickflex quick-locking system, voltages up to 1000 V, in Clean Design for easy cleaning.

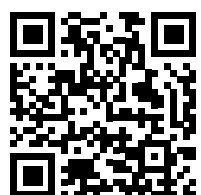
### Benefits

- Particularly high power despite extremely space-saving design for very small devices.
- Innovative design allows high voltages up to 1000 V.
- Quickflex quick-locking system enables simple connection to the counterpart. Locking takes place after just a quarter of a turn. Quickflex can be plugged in with market standard plug connections.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the marking rings of the EPIC® M23P series.

Click or Scan – More information available online



## Connectors

Circular connectors

NEW



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available online



## EPIC® M23P D6 Screw termination

Compact and powerful M23 cable connector, with screw connection, voltages up to 1000 V, in clean design for easy cleaning.

### Benefits

- Particularly high power despite extremely space-saving design for very small devices.
- Innovative design allows high voltages up to 1000 V.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the marking rings of the EPIC® M23P series.

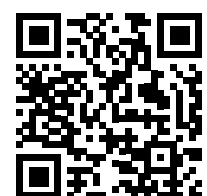
## Connectors

Circular connectors

NEW



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available online



## EPIC® M23P F6 Quickflex

Compact and powerful M23 coupling plug, Quickflex quick-locking system, voltages up to 1000 V, in clean design for easy cleaning.

### Benefits

- Particularly high power despite extremely space-saving design for very small devices.
- Innovative design allows high voltages up to 1000 V.
- Quickflex quick-locking system enables simple connection to the counterpart. Locking takes place after just a quarter of a turn. Quickflex can be plugged in with market standard plug connections.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.

### Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the marking rings of the EPIC® M23P series.



## Connectors

Circular connectors

NEW



## EPIC® M23P Contacts

High-quality, crimpable contact for circular connector inserts of the EPIC® M23P series, pin contacts fit into inserts for the panel-mount base and the coupling plug.

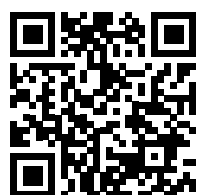
### Benefits

- High-quality, solid or twisted contact for the safe transmission of higher currents.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Male contacts fit into inserts for the panel-mount base as well as the EPIC® M23P series coupling plug.
- With corrosion-resistant gold coating for the low contact resistances and long product life.

### Application ranges

- For use with circular connector inserts from the EPIC® M23P series.

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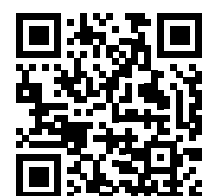
## Connectors

Circular connectors

NEW



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available online



## EPIC® M23P Inserts female +

M23 circular connector insert for socket contacts, pluggable with pin inserts and HV pin inserts from the EPIC® M23P series, new design for secure and precise fixing.

### Benefits

- Socket insert is pluggable both with the EPIC® M23P Pin inserts and with the EPIC® M23P pin inserts HV.
- New design of the inserts ensures optimised latching of the contacts and the two components of the insulating body. This ensures secure and precise fixation.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For manufacturing an EPIC® M23P circular connector.
- For use with housings from the EPIC® M23P series.

## Connectors

Circular connectors

NEW



## EPIC® M23P Inserts male HV

M23 circular connector insert for pin contacts, for manufacturing an EPIC® M23P circular connector, new design for secure and precise fixing, voltages up to 1000 V.

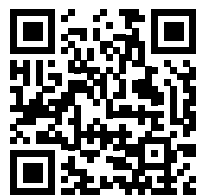
### Benefits

- Innovative design allows high voltages up to 1000 V.
- New design of the inserts ensures optimised latching of the contacts and the two components of the insulating body. This ensures secure and precise fixation.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For manufacturing an EPIC® M23P circular connector.
- For use with housings from the EPIC® M23P series.

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## Connectors

Circular connectors

NEW



## EPIC® M23P Inserts male

M23 circular connector insert for pin contacts, for making an EPIC® M23P circular connector, new design for secure and precise fixing.

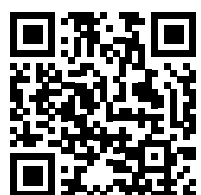
### Benefits

- New design of the inserts ensures optimised latching of the contacts and the two components of the insulating body. This ensures secure and precise fixation.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

### Application ranges

- For manufacturing an EPIC® M23P circular connector.
- For use with housings from the EPIC® M23P series.

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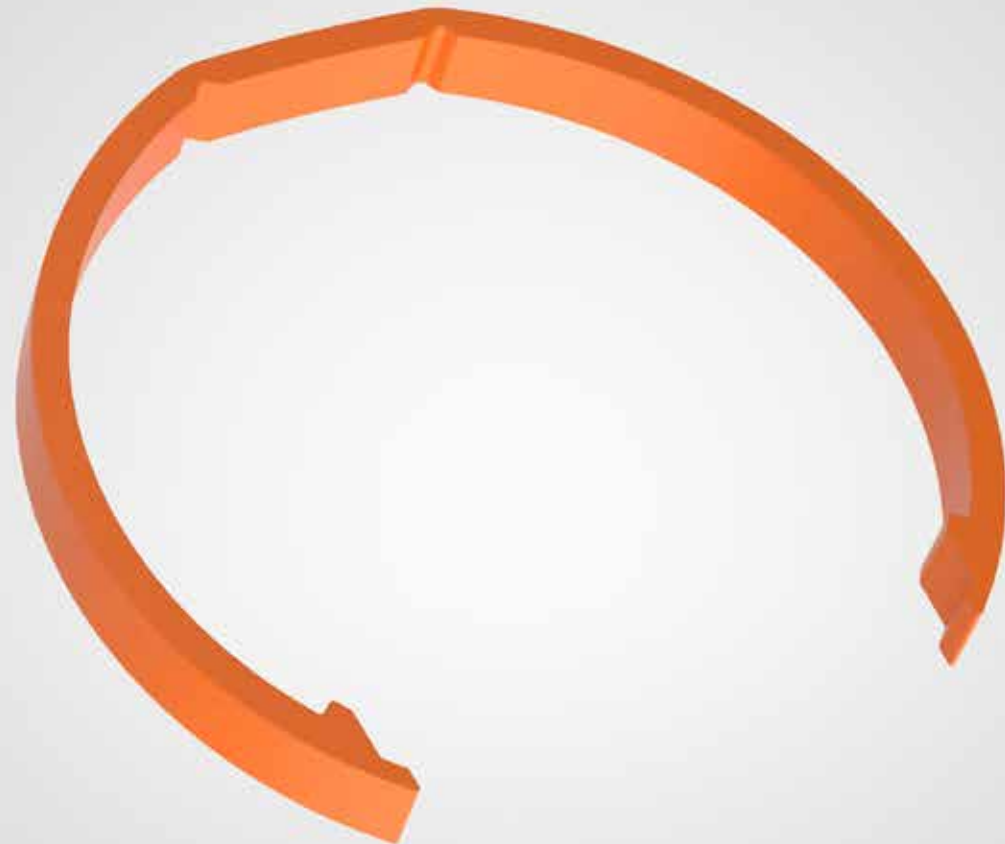




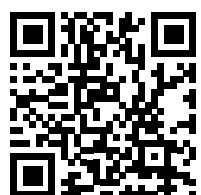
## Connectors

Circular connectors

NEW



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available online



## EPIC® M23P Marking rings

Marking rings for colour coding of EPIC® M23P series plug connections, clear assignment depending on the application, various colours available.

### Benefits

- Clear assignment of the plug connections depending on the application thanks to visual identification with coloured marking rings.
- Available in different colours.

### Application ranges

- For colour marking plug connections.
- For use with housings from the EPIC® M23P series.

## Connectors

Data connectors

NEW



## EPIC® DATA M12D Screw termination

**What is new?** The D-coded M12 data connector is now also available in a shielded version with a metal housing for optimum EMC protection.

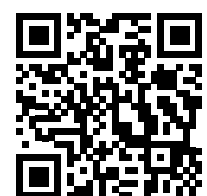
### Benefits

- High stability thanks to impact-resistant polyamide or die-cast zinc metal housing.
- The service-friendly screw connection makes assembly possible without a special tool, and is suitable for connections which need to be detached again.
- Plug connections with metal housings have an electrically conductive coating. They offer optimum protection against electromagnetic interference (EMC) and dissipate interference signals with low impedance (depending on the item).
- When connected, protection class IP 67 can be achieved.
- UL certification in accordance with the technical data (article dependent) allows the product to be used on the North American market.
- Available in different designs.

### Application ranges

- Can be used universally on machine interfaces for many applications in data and signal transmission.
- For Ethernet applications 100BASE-TX (up to 100 Mbit/s) according to IEEE 802.3.
- Shielded plug connections with metal housings are particularly suitable for environments where electromagnetic compatibility (EMC) is required.
- Good oil and chemical resistance.

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## Connectors

Data connectors

NEW



## EPIC® SENSOR M12A Push-In termination

Field-attachable M12 data connector (A-coded) with push-in connection, for assembly with sensor/actuator cables.

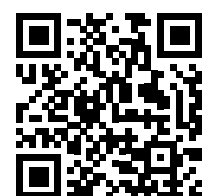
### Benefits

- High stability thanks to impact-resistant polyamide.
- Push-in connection allows the shortest connection times: Before inserting or pulling out the wires, all you have to do is press the unlocking or locking button to open the shield terminal.
- When connected, protection class IP 67 can be achieved.

### Application ranges

- Can be used universally at machine interfaces for many applications in data and signal transmission in the low-frequency range.
- Typical application areas are sensors and actuators at field level.
- Good oil and chemical resistance.

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## Cable glands

Single entries

NEW



## SKINTOP® MS-HF-M BRUSH

**What is new?** The cable gland is now also available in smaller thread sizes.

### Benefits

- Optimum EMC protection thanks to the unique 360° brass brush, which creates a low-resistance contact between the copper braided screening and the gland.
- Reliable EMC protection is guaranteed even after dismantling and reinstallation, as the copper braided screening is not damaged by the brass brush.
- Halogen free materials make the product suitable for use in public areas.
- Safe, fast and uncomplicated installation.
- The best possible sealing enables protection classes IP 68 (10 bar) and IP 69.

### Application ranges

- For EMC-compliant insertion of copper-screened cables.
- For use in control systems, motors and frequency converters.
- Compliant with standards for use in rail vehicles (fire behaviour test according to DIN EN 45545-2:2016-02, requirements sets R22 and R23, hazard levels HL1, HL2 and HL3).
- Withstands high chemical and mechanical loads.
- Suitable for outdoor use, subject to the temperature range.
- For painted, anodised or powder-coated housings, use the SKINDICHT® SM-PE-M lock nut for equipotential bonding.

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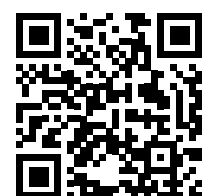
## Cable glands

Single entries

**NEW**



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available online



## SKINTOP® MS-M ATEX BRUSH

**What is new?** The cable gland is now also available in smaller thread sizes.

### Benefits

- Optimum EMC protection thanks to the unique 360° brass brush, which creates a low-resistance contact between the copper braided screening and the gland.
- Reliable EMC protection is guaranteed even after dismantling and reinstallation, as the copper braided screening is not damaged by the brass brush.
- Approval for potentially explosive atmospheres in accordance with ATEX Directive 2014/34/EU.
- Safe, fast and uncomplicated installation.
- The best possible sealing enables protection class IP 68 (10 bar).

### Application ranges

- For EMC-compliant insertion of copper-screened cables.
- For use in devices, machines and systems of the “Enhanced Safety” ignition protection type (“e”).
- For use on devices, machines and systems with protection type “protection by housing” (“t”).
- For equipment group II, categories 2G and 1D.
- Particularly in potentially explosive atmospheres in the chemical and petrochemical industry.
- Withstands high chemical and mechanical loads.

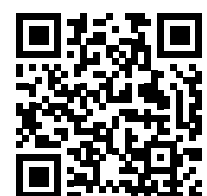
## Cable glands

Single entries

**NEW**



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available online



# SKINTOP® MS-M BRUSH/SKINTOP® MS-M BRUSH XL

**What is new?** The cable gland is now also available in smaller thread sizes.

## Benefits

- Optimum EMC protection thanks to the unique 360° brass brush, which creates a low-resistance contact between the copper braided screening and the gland.
- Reliable EMC protection is guaranteed even after dismantling and reinstallation, as the copper braided screening is not damaged by the brass brush.
- Safe, fast and uncomplicated installation. Innovative double lamella basket in sizes M75x1.5 to M110x2 simplifies assembly and prevents lever action on heavy cables.
- The best possible sealing enables protection classes IP 68 (10 bar) and IP 69.

## Application ranges

- For EMC-compliant insertion of copper-screened cables.
- For use in control systems, motors and frequency converters.
- The “XL” version is particularly suitable for thick-walled housings thanks to the exceptionally long connection thread.
- Withstands high chemical and mechanical loads.
- Suitable for outdoor use, subject to the temperature range.
- For painted, anodised or powder-coated housings, use the SKINDICHT® SM-PE-M lock nut for equipotential bonding.

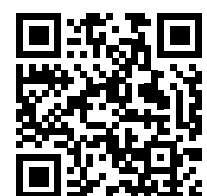
## Network and distribution components

Ethernet distribution

NEW



Click or Scan – More information  
available online



## SFP modules +

Transceiver for connecting fibre optic patch cables to industrial network switches with SFP interface, for different data rates, fibre types and wavelengths.

### Benefits

- Compact, industrial housing with SFP interface and LC duplex socket for immediate connection of a fibre optic patch cable to network devices such as switches, routers or firewalls.
- Converts electrical signals into optical signals and vice versa.
- Compatible with SFP ports from many manufacturers thanks to a standardised SFP interface in accordance with the SFP MSA specification ("Small Form Factor Pluggable Multi-Sourcing Agreement").
- The SFP interface allows SFP modules on the network device to be replaced quickly in order to react flexibly to network adaptations (e.g. different fibre type, different data transmission rates). Instead of a large number of end devices in the warehouse, only different SFP modules are required.
- Provides digital diagnostic data in real time, in particular on connection quality (DDM information in accordance with the SFF-8472 specification).
- Uses eye-safe lasers of laser class 1 according to DIN EN 60825-1.
- UL certification according to technical data enables the product to be used in the North American market.
- Available in different versions for different fibre types (SM and MM), data transmission rates and wavelengths.

### Application ranges

- Universally applicable for bidirectional signal and data transmission via GOF fibre optic cables.
- For use with ETHERLINE® ACCESS switches that have an SFP interface.
- Extended temperature range from -40 °C to +85 °C.

## Tools and accessories

EMC and earthing products

NEW



Click or Scan – More information  
available online



## Screen Connector SC

For contacting the cable shield using crimp connection technology, similar in design to the discontinued product “one-piece Shield-Kon® RSK” from ABB.

### Benefits

- Successor for the one-piece Shield-Kon® RSK shielding connector from ABB, compatible with the corresponding hand tool.
- Quick and easy shield contact thanks to proven crimp termination. Even easier handling of hand tools and shielding connectors is achieved together with the “PEW12 table holder” (article number 61813830).
- The double C-shape of the shielding connector accommodates the stripped, shielded cable on the one hand and a stripped strand that can be connected to the application’s earthing system on the other.
- The electrically conductive coating of the galvanised surface and the large-area shield contact ensure a low-resistance transition between the cable shield and the shielding connector. High-frequency interference is thus safely dissipated (EMC).

### Application ranges

- Can be used in control cabinets, as well as motor controls, enclosures or machinery.
- For contacting screened cables with earth potential.
- For protection against electromagnetic interference and for equipotential bonding.



## Tools and accessories

Tools

NEW



## PVX 1300 pressing pliers

**What is new?** The battery-powered tool can now also be purchased without a battery and mains adapter.

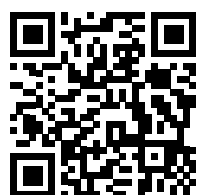
### Benefits

- Allows one-handed operation for easy working.
- Digital display provides information on the tool, e.g. number of crimping operations, battery charge status and maintenance interval.
- If the pressing force is not reached, the electronic pressure monitoring system reacts with an acoustic signal and a flashing LED.
- Fast feed with two-stage hydraulics for more efficient pressing.
- Suitable for conductor cross-sections from 10.00 to 400.00 mm<sup>2</sup>.

### Application ranges

- Battery-powered tool for crimping copper/aluminium connectors and type KRF and KRT tube cable lugs.
- For use with matching crimp inserts.

Click or Scan – More information available online



## Tools and accessories

Tools

NEW



## PEW 12 universal tool

**What is new?** The PEW12 crimping system is now supplemented by a table holder that can be used to fix the crimping tool at the workstation.

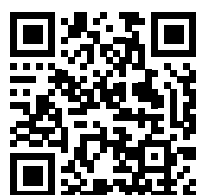
### Benefits

- Suitable for almost all crimp connectors with a cross-section of 0.08–95.00 mm².
- Allows one- and two-hand operation.
- With rotary knob for individual adjustment of the crimp strength.
- The case is used for practical storage of crimping tools and crimping dies.
- The table holder is used to secure the crimping tool at the workstation. This makes crimping processes more efficient and less tedious.
- Separately available crimping inserts allow flexibility in the choice of crimping profile.

### Application ranges

- For making a secure crimp connection.
- For use with turned and stamped contacts, with end sleeves and crimpable data connectors.
- For use with the “PEW 12” crimp inserts.

Click or Scan – More information available online



LEGEND

NEW PRODUCT



PRODUCT EXTENSION



PRODUCT CHARACTERISTICS

 Suitable for outdoor use	 Maximum vibration protection	 Clean room	 Temperature-resistant
 Good chemical resistance	 Mechanical resistance	 Robust	 Torsion-resistant
 Flame-retardant	 Assembly time	 Acid-resistant	 Torsion load
 Wide clamping range	 Low weight	 Reliability	 UV-resistant
 Halogen-free	 Oil-resistant	 Integrated SKINTOP® cable gland	 Waterproof
 Heat-resistant	 Optimum strain relief	 Voltage	 Variety of approval certifications
 Cold-resistant	 Space requirement	 Connector with standard housing unit	 Submersible use
 Corrosion-resistant	 Cable chain	 Interference signals	

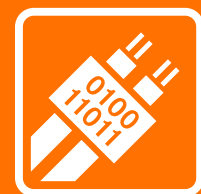
**Please note:**  
The purpose of the icons is to provide you with a quick overview and a rough indication of the product features to which the corresponding information relates. You can find details of product characteristics in the “technical data” sections on the product pages.



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