

Webguide

New Products Spring 2022

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MACHINE AND PLANT ENGINEERING

Cables and accessories for machines and plants:
a perfect match

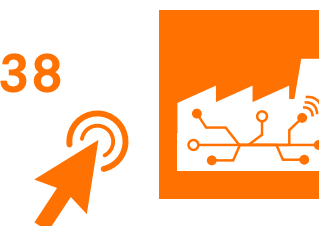
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ETHERNET DATA TRANSMISSION

Your highway for big data

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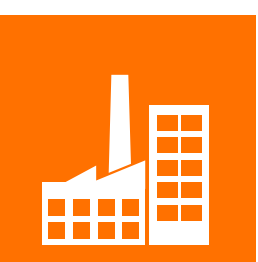
MACHINE AND PLANT ENGINEERING

CABLES AND ACCESSORIES
FOR MACHINES AND PLANTS:
A PERFECT MATCH



New: Spring 2022

- + ÖLFLEX® 127 HSLH**
Halogen-free cable, flexible and inexpensive, with CPR Cca, for building wiring.
- + ÖLFLEX® DC GRID**
Flexible, buriable DC cable with colour code according to EN 60445 for DC applications in industrial plants.
- + EPIC® ULTRA H-A 3**
Portfolio expansion of corrosion-resistant rectangular connector housings with EMC protection; new construction forms, new design.
- + EPIC® H-A 3**
Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.
- + EPIC® H-Q 5**
Compact, 5-pole rectangular connector insert, powerful up to 30 A, with screw or crimpable PE contact.
- + EPIC® H-Q 5 PE contacts**
Crimpable and thus vibration-proof PE protective conductor contact for rectangular connector inserts EPIC® H-Q 5 and 7.
- + EPIC® H-Q 7**
Compact, 7-pole rectangular connector insert, powerful up to 10 A, with screwable or crimpable PE contact.
- + EPIC® POWER M 12L – Series**
Small power connector M 12, L-coded, for power supply in the low-voltage range (decentralised I/O modules, DC motors), PROFINET-compliant.
- + EPIC® POWER M 12L contacts**
Contacts with multiple slots and conductor cross-section marking, for EPIC® POWER M 12L power connectors.
- + EPIC® MH 2 40A**
2-pole rectangular connector insert for modular system EPIC® MH, powerful up to 40 A, also for railway applications.
- + SKINTOP® DIX-M**
Multiple sealing insert made of NBR (oil-resistant), FKM (heat-resistant) or silicone (chemical-resistant), leads several cables through one cable gland.
- + SKINTOP® MULTI VENT**
Multiple entry for up to 29 lines, with breathable pressure compensation element for venting when enclosures are closed.
- + SKINDICHT® Lead Free Series**
Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).

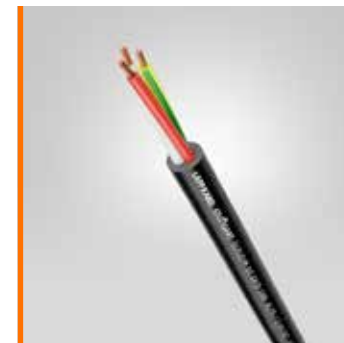


CABLES AND ACCESSORIES FOR MACHINES AND ENCLOSURES: A PERFECT MATCH



ÖLFLEX® 127 HSLH

Do you need a halogen-free, low-priced control cable with highly classified fire behaviour according to CPR, which is also flexible and easy to install? Our ÖLFLEX® cable with Cca class should sweeten your day! It is universally used for cabling buildings and industrial plants and complies with the legal fire protection requirements.



ÖLFLEX® DC GRID

Would you like to have direct current? If so, you will be able to connect buildings or industrial plants without any problems with this flexible cable being suitable for direct burial. The cores are marked according to the currently valid standard EN 60445.



EPIC® ULTRA H-A 3

The EMC products of our revised EPIC® ULTRA H-A 3 product family are ultra-small. The existing enclosures as well as the completely new enclosure designs EGS, TGV, TSV and TGHV offer more space inside and at the same time take up less space in your application. The enclosure variety is enormous. And so are the areas of application.



EPIC® H-A 3

With the revised EPIC® H-A 3 product family, we have once again reinforced the meaning of „extremely compact“. The existing metal enclosures as well as the completely new enclosure designs MTG, MTS, MAG, MAGS, MAGSV, MAGD and MTGVB offer more space inside and at the same time take up less space in your application. The enclosure variety is huge. And furthermore are the areas of application.



EPIC® H-Q 5

This compact, 5+1-pole standard insert is anything but standard. Why? Because the „PE-C“ variant, which is a crimpable PE protective earth contact can be used. The crimp connection of power AND protective earth contacts offers you the chance to assemble the entire connector automatically for the first time. In addition the insert with 30 A is exceptionally powerful for its size.



EPIC® H-Q 5 PE contacts

A contact that will be remembered: This PE contact for connecting a protective earth conductor can be crimped for the first time. This is currently unique on the market. Crimp connections are known to be reliable for years, especially in applications with high vibrations. With a PE crimp contact, you'll receive a fully automated connector assembly process.

CABLES AND ACCESSORIES FOR MACHINES AND ENCLOSURES: A PERFECT MATCH



EPIC® H-Q 7

This compact, 7+1-pole standard insert is anything but standard. Why? Because the „PE-C“ variant, which is a crimpable PE protective earth contact can be used. The crimp connection of power AND protective earth contacts offers you the chance to assemble the entire connector automatically for the first time. And is it mateable with other connectors on the market? Yes indeed!



EPIC® POWER M 12L – Series

State-of-the-art development and design methods combined in the smallest of spaces: the extremely small and powerful M12 with L-coding prevents mismatching, is PROFINET-compliant and UL-certified. M12L enables sensor/actuator cabling as well as the power supply of smaller DC motors, e.g. in automated guided vehicles.



EPIC® POWER M 12L contacts

Not all contacts are the same! To make sure that the miniaturised power connector EPIC® POWER M12L to do its job properly, long-lasting contacts are required that make maximum contact at the connector and keep contact resistances low. Et voilà, here they are!



EPIC® MH 2 40A

We love modular plug-in connectors. That's why we are expanding our product family with another module for power supply in your applications. The module simply snaps into the multi-frame, becomes UL-certified and can be used in rail vehicles. Wonderfully flexible in use!



SKINTOP® DIX-M

Unmissable: Our cold-flexible multiple sealing insert made of blue silicone allows several cables to be gently inserted through one cable gland. The extremely cold-flexible, ECOLAB-tested polyamide is always highly visible and clearly distinguishable from other components in food and beverage industry.



SKINTOP® MULTI VENT

Goodbye moisture: With this multiple entry, you will never again have to complain about moisture problems in closed enclosures thanks to the firmly integrated pressure compensation element. The elastic gel membrane technology also enables direct cable entry without pre-piercing. There are six versions with different clamping ranges for up to 29 cables available.

CABLES AND ACCESSORIES FOR MACHINES AND ENCLOSURES: A PERFECT MATCH



SKINDICHT® Lead-free Series

Whether blind plugs, reducers, enlargers, adapters or locknuts – the accessories for cable glands must also be manufactured completely without the addition of lead in the long term. This is what the RoHS directive wants. With our lead-free products, you are already on the safe side. Don't worry, the product properties do not change due to the absence of lead!

Power and control cables

Various applications • Halogen-free ÖLFLEX®

NEW



ÖLFLEX® 127 HSLH

Halogen-free cable, flexible and inexpensive, with CPR Cca, for building wiring.


Benefit


- Easy handling and installation due to flexible design.
- Halogen-free and highly flame-retardant materials reduce the risk of fire propagation, high smoke density and toxic fumes in case of an event of fire.
- Classified fire behavior according to EU Directive 305/2011 (CPR) with article number selection under www.lappkabel.com/cpr.
- High electrical safety due to 4000V test voltage.


Application


- For building wiring to comply with special fire protection requirements.
- Universally applicable for wiring internal machine and plant-wide control circuits.
- For fixed installation and occasional movement without tensile stress.
- Can be used in dry and damp environments.
- Suitable for medium mechanical stress.
- HFFR outer sheath is largely resistant to acids and alkalis.


Technical Data


 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000104
ETIM 5.0/6.0 Class-Description:
Control cable


 **Core identification code**
Black with white numbers acc. to VDE 0293-334


 **Conductor stranding**
Fine wire according to VDE 0295,
class 5/IEC 60228 class 5

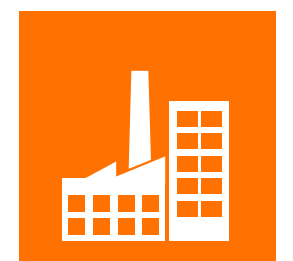
 **Minimum bending radius**
Occasional flexing: 15 x outer diameter
Fixed installation: 4 x outer diameter

 **Nominal voltage**
 U_0/U : 300/500 V

 **Test voltage**
4000 V

 **Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor

 **Temperature range**
Occasional flexing: -5 °C to +70 °C
Fixed installation: -40 °C to +80 °C



Power and control cables

Various applications • PVC outer sheath and coloured cores

NEW



ÖLFLEX® DC GRID

Flexible, buriable DC cable with colour code according to EN 60445 for DC applications in industrial plants.

Benefit

- Suitable for the installation of energy-saving DC networks in industrial plants.
- Can be laid in the underground thanks to resistant insulating and sheathing material in accordance to DIN VDE 0276-603.
- Good installation properties thanks to the fine-wire, flexible conductor.
- With color code according to EN 60445 for DC systems.

Application

- For DC applications in low-voltage range.
- For industrial installations where power is distributed via a DC network.
- For use on control equipment, motors and frequency converters.
- Can be used in dry, damp and wet environments.
- For open installation on cable trays.
- Can be laid in the underground.
- Withstands high mechanical loads.

Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000057
ETIM 5.0/6.0 Class-Description: Low voltage power cable

Core identification code
According to EN 60445

Conductor stranding
Fine wire according to VDE 0295, class 5/IEC 60228 class 5

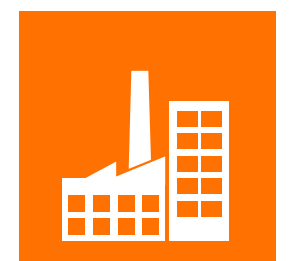
Minimum bending radius
Occasional flexing: 15 x outer diameter
Fixed installation: 4 x outer diameter

Nominal voltage
DC (core-ground): max. 0,75 kV
DC (core-core): max. 1,5 kV

Test voltage
4000 V

Protective conductor
G = with GN-YE protective conductor
X = without protective conductor

Temperature range
Occasional flexing: -5 °C to +70 °C
Fixed installation: -40 °C to +80 °C



EPIC® Industrial connectors

Rectangular connectors • EPIC® ULTRA H-A 3

NEW



Technical Data

Classification ETIM 5/6
 ETIM 5.0/6.0 Class-ID: EC000437
 ETIM 5.0/6.0 Class-Description:
 Housing for industrial connectors

Material
 Housing: nickel-plated zinc diecasting
 Lever: stainless steel
 Sealing: CR

DIN VDE **VDE-tested:**
 Certified production control: VDE-REG.
 no.: B437
UL-tested:
 UL File Number: E75770

Temperature range
 -40 °C to +100 °C, short-term up to
 +125 °C

EPIC® ULTRA H-A 3 TGV

Portfolio expansion of corrosion-resistant rectangular connector housings with EMC protection; new construction forms, new design. Available as hood, surface-mounted, recessed, base or coupling housing.

Benefit

- The EPIC® ULTRA H-A 3 range comprises the smallest EMC housings in the heavy-duty industrial connector sector and ensures safe plug connections in a small amount of space.
- The hood housing is mateable with many commercially available housings (panel-mount base, surface-mount base or coupler hood housings).
- The integrated SKINTOP® cable gland is used for sealing and strain-relieving cable entry. Compared to enclosures where the cable gland is added separately, the overall size of the enclosure is more space-saving.
- Locking is via stainless steel single lever on the enclosure.
- Corresponds to protection class IP 65 when locked.
- Protection class classified according to NEMA 250 as well as tested according to UL50E.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Especially for environments where the product is getting into contact with water, cleaning agents and saline substances.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® ULTRA H-A 3

NEW



Technical Data



Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors



Material
Housing: nickel-plated zinc diecasting
Lever: stainless steel
Sealing: NBR



VDE-tested:
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770



Temperature range
-40 °C to +100 °C, short-term up to
+125 °C

EPIC® ULTRA H-A 3 TGHV +

Portfolio expansion of corrosion-resistant rectangular connector housings with EMC protection; new construction forms, new design. Available as hood, surface-mounted, recessed, base or coupling housing.

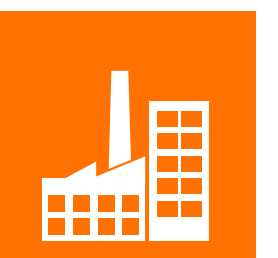
Benefit

- The EPIC® ULTRA H-A 3 range comprises the smallest EMC housings in the heavy-duty industrial connector sector and ensures safe plug connections in a small amount of space.
- The hood housing is mateable with many commercially available housings (panel-mount base, surface-mount base or coupler hood housings).
- The tall design offers more space and is therefore suitable for larger deployments or applications with more space requirements in the enclosure.
- The integrated SKINTOP® cable gland is used for sealing and strain-relieving cable entry. Compared to enclosures where the cable gland is added separately, the overall size of the enclosure is more space-saving.
- For article names with the addition „BRUSH“, the integrated cable gland is supplemented by our innovative SKINTOP® BRUSH brass brush, which enables 360° contacting of the copper shielding braid and is even more effective dissipation of interference signals. The brush wires enable easier assembly of the connector and maintain the gapless 360° coverage of the copper shielding braid.
- Locking is via stainless steel longitudinal brackets on the mating enclosure.

- Corresponds to protection class IP 65 when locked.
- Protection class classified according to NEMA 250 as well as tested according to UL50E.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Especially for environments where the product is getting into contact with water, cleaning agents and saline substances.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® ULTRA H-A 3

NEW



Technical Data



Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors



Material
Housing: nickel-plated zinc diecasting
Lever: stainless steel
Sealing: NBR



VDE-tested:
in preparation
UL-tested:
UL File Number: E75770



Temperature range
-40 °C to +100 °C, short-term up to
+125 °C

EPIC® ULTRA H-A 3 TSV

Portfolio expansion of corrosion-resistant rectangular connector housings with EMC protection; new construction forms, new design. Available as hood, surface-mounted, recessed, base or coupling housing.

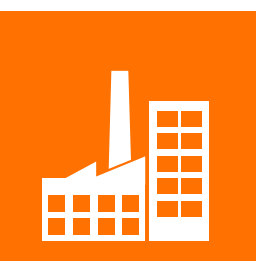
Benefit

- The EPIC® ULTRA H-A 3 range comprises the smallest EMC housings in the heavy-duty industrial connector sector and ensures safe plug connections in a small amount of space.
- The hood housing is mateable with many commercially available housings (panel-mount base, surface-mount base or coupler hood housings)
- With lateral cable entry for orderly cable routing and to prevent excessive bending of the cable.
- The integrated SKINTOP® cable gland is used for sealing and strain-relieving cable entry. Compared to enclosures where the cable gland is added separately, the overall size of the enclosure is more space-saving.
- For article names with the addition „BRUSH“, the integrated cable gland is supplemented by our innovative SKINTOP® BRUSH brass brush, which enables 360° contacting of the copper shielding braid and thus even more effective dissipation of interference signals. The brush wires enable easier assembly of the connector and maintain the gapless 360° coverage of the copper shielding braid.
- Locking is via stainless steel longitudinal brackets on the mating enclosure.
- Corresponds to protection class IP 65 when locked.

- Protection class classified according to NEMA 250 as well as tested according to UL50E.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Especially for environments where the product is getting into contact with water, cleaning agents and saline substances.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Can be used by many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® ULTRA H-A 3

NEW



Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
Housing: nickel-plated zinc diecasting
Lever: stainless steel
Sealing: NBR

Protection rating
IP 66 / IP 68 1 meter / 10 hours
NEMA 250, UL50E: 12, 4, 4X (latched)

DIN VDE
VDE-tested:
in preparation
UL-tested:
in preparation

Temperature range
-40 °C to +100 °C, short-term up to
+125 °C

EPIC® ULTRA H-A 3 EGS

Portfolio expansion of corrosion-resistant rectangular connector housings with EMC protection; new construction forms, new design. Available as hood, surface-mounted, recessed, base or coupling housing.

Benefit

- The EPIC® ULTRA H-A 3 range comprises the smallest EMC housings in the heavy-duty industrial connector sector and ensures safe plug connections in the smallest amount of space.
- The built in housing is mateable by many commercially available hood housings.
- With lateral cable entry for orderly cable routing and to prevent excessive bending of the cable.
- Simple mounting on the enclosure by screwing in and fixing with locknut.
- Contact is achieved when the locknut is tightened by the cutting edges scratching the coated layer of the housing.
- Locking is via a stainless steel longitudinal bracket.
- Corresponds to protection class IP 65 when locked.
- Protection class classified according to NEMA 250 as well as tested according to UL50E.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Especially for environments where the product is getting into contact with water, cleaning agents and saline substances.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Can be used with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
EPIC® H-A 3 MTG
Housing: powder-coated zinc diecasting,
grey
Lever: zinc-plated steel

IP **Protection rating**
IP 65 (latched)
NEMA 250, UL50E: 12, 4 (latched)

DIN VDE **VDE-tested:**
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770

Temperature range
-40 °C to +100 °C, short-term up to
+125 °C

EPIC® H-A 3 MTG

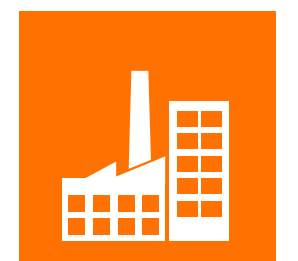
Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in the smallest of spaces.
- The hood housing is mateable with many commercially available housings (panel-mount base, surface-mount base or coupler hood housings)
- With threaded hole for use with a corresponding cable gland.
- Locking is via longitudinal brackets on the mating enclosure.
- Corresponds to protection class IP 65 when locked.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Can be used with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
EPIC® H-A 3 MTS
Housing: powder-coated zinc diecasting,
grey
Lever: zinc-plated steel

IP Protection rating
IP 65 (latched)
NEMA 250, UL50E: 12, 4 (latched)

DIN VDE VDE-tested:
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770

Temperature range
-40 °C to +100 °C, short-term up to +125 °C

EPIC® H-A 3 MTS

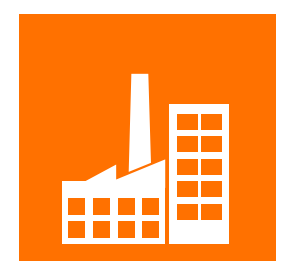
Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in the smallest amount of space.
- The hood housing is mateable with many commercially available housings (add-on, base or coupling housings).
- With lateral cable entry for orderly cable routing and to prevent excessive bending of the cable.
- With threaded hole for use with a corresponding cable gland.
- Locking is via longitudinal brackets on the mating enclosure.
- Corresponds to protection class IP 65 when locked.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Can be used with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



EPIC® H-A 3 MAG

Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in a small amount of space.
- The bulkhead mounting housing is mateable with many commercially available hood housings.
- Integrated, internal seal simplifies assembly (no small parts to lose).
- Locking is via longitudinal brackets on the mating enclosure.
- Corresponds to protection class IP 65 when locked.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- For use with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.

Technical Data

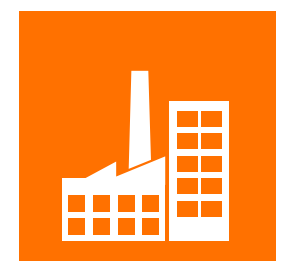
Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
EPIC® H-A 3 MAG
Housing: powder-coated zinc diecasting, grey
Lever: zinc-plated steel
Sealing: NBR

Protection rating
IP 65 (latched)
NEMA 250, UL50E: 12, 4 (latched)

VDE-tested:
EPIC® H-A 3 MAG
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770

Temperature range
-40 °C to +100 °C, short-term up to +125 °C



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
Housing: powder-coated zinc diecasting, grey
Lever: zinc-plated steel
Sealing: NBR

IP Protection rating
IP 65 (latched)
NEMA 250, UL50E: 12, 4 (latched)

DIN VDE VDE-tested:
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770

Temperature range
-40 °C to +100 °C, short-term up to +125 °C

EPIC® H-A 3 MAGS +

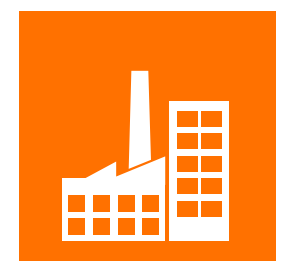
Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in the smallest of spaces.
- The bulkhead mounting housing is mateable to many commercially available hood housings.
- With lateral cable entry for orderly cable routing and to prevent excessive bending of the cable.
- Integrated, internal seal simplifies assembly (no small parts to lose).
- Locking is via longitudinal brackets on the mating enclosure.
- Corresponds to protection class IP 65 when locked.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- For use with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



EPIC® H-A 3 MAGSV

Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in a small amount of space.
- The bulkhead mounting housing is mateable with many commercially available hood housings.
- With lateral cable entry for orderly cable routing and to prevent excessive bending of the cable.
- The integrated SKINTOP® cable gland made of brass is used for sealing and strain-relieving cable entry. Compared to enclosures where the cable gland is added separately, the overall size of the enclosure is more space-saving.
- Integrated, internal seal simplifies assembly (no small parts to lose).
- Locking is via longitudinal brackets on the mating enclosure.
- Corresponds to protection class IP 65 when locked.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Can be used with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors

Technical Data

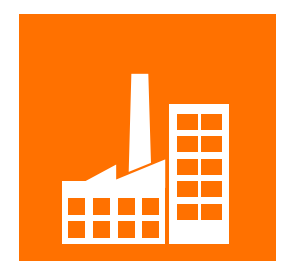
Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
Housing: powder-coated zinc diecasting, grey
Lever: zinc-plated steel
Sealing: NBR

Protection rating
IP 65 (latched)
NEMA 250, UL50E: 12, 4 (latched)

VDE-tested:
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770

Temperature range
-40 °C to +100 °C, short-term up to +125 °C



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000437
ETIM 5.0/6.0 Class-Description:
Housing for industrial connectors

Material
Housing: powder-coated zinc diecasting, grey
Lever: zinc-plated steel
Sealing: NBR

IP Protection rating
IP 65 (latched)
NEMA 250, UL50E: 12, 4 (latched)

VDE-tested:
Certified production control: VDE-REG.
no.: B437
UL-tested:
UL File Number: E75770

Temperature range
-40 °C to +100 °C, short-term up to
+125 °C

EPIC® H-A 3 MTGVB +

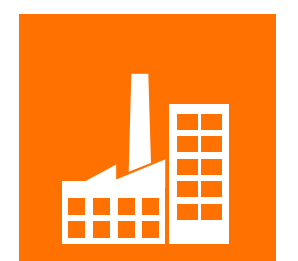
Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in a small amount of space.
- The coupling housing is mateable with many commercially available hood housings.
- The integrated SKINTOP® cable gland made of brass is used for sealing and strain-relieving cable entry. Compared to enclosures where the cable gland is added separately, the overall size of the enclosure is more space-saving.
- The locking is done via crossbars.
- Corresponds to protection class IP 65 when locked.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- For use with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-A 3 Housings

NEW



Technical Data

Material
Housing: powder-coated zinc diecasting, grey
Lever: zinc-plated steel
Sealing: NBR

IP Protection rating
IP 66 / IP 68 1 meter / 10 hours (locked)
IP 44 (cover locked)

Temperature range
-40 °C to +100 °C, short-term up to +125 °C

EPIC® H-A 3 MAGD

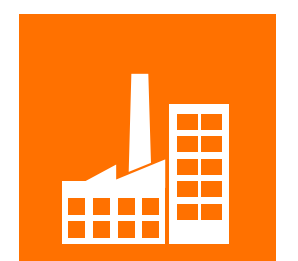
Portfolio expansion of the robust, mechanically resistant rectangular connector housings; new construction forms, new design.

Benefit

- The EPIC® H-A 3 Series comprises the smallest housings in the heavy-duty industrial connector range and ensures secure connections in a small amount of space.
- The panel mount housing is mateable with many commercially available hood housings.
- Protective cover protects against environmental influences when not plugged in.
- Integrated, internal seal simplifies assembly (no small parts to lose).
- Locking is via longitudinal brackets on the mating enclosure.
- Protective cover protects against environmental influences when not plugged in.
- The arrow as a new design element on the surface of the housing is easy to feel and simplifies plugging in spatially confined and possibly poorly visible application areas.

Application

- To protect the connector insert from environmental influences.
- Can be used with many EPIC® rectangular connector inserts.
- For power supply connection of devices and machines in various applications.
- Withstands high environmental and mechanical stresses.
- Suitable for the outdoors.



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-Q 5 Inserts

NEW



EPIC® H-Q 5

Compact, 5-pole rectangular connector insert, powerful up to 30 A, for screw or crimpable PE contact.

Benefit

- Powerful up to 30 A thanks to compact arrangement of the 5 power contacts.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Protective earth (PE) can be connected in two ways: Variant „PE-S“ can be used with a PE screw contact, variant „PE-C“ with a PE crimp contact.
- Special PE crimp contact enables automated assembly of a completely vibration-proof connector.
- Mateable with market standard connectors.
- Suitable for conductor cross-sections from 0.14 - 4.00 mm².

Application

- For power supply connection of devices and machines in various applications.
- Suitable for wiring inside the control cabinet.
- Can be used with many EPIC® rectangular connector housings.

Technical Data

Rated voltage (V)
400 V
Rated impulse voltage
6 kV

Rated current (A)
30 A

Pollution degree
3

Flammability
UL94 V-0

Contact resistance
< 2 mOhm

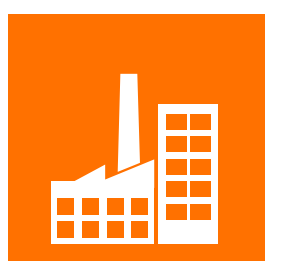
Number of contacts
5 + PE

Termination methods
Crimp termination: 0.14 - 4.0 mm²
Crimp termination PE: 0.25 mm² ...4.0 mm²

Material
Polyamide

Cycle of mechanical operation
500

Temperature range
-40 °C to +120 °C
Article number



EPIC® Industrial connectors

Rectangular connectors • EPIC® Contacts + tools

NEW



EPIC® H-Q 5 PE contacts

Crimpable and thus vibration-proof PE protective conductor contact for rectangular connector inserts EPIC® H-Q and EPIC® H-Q 7

Benefit

- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Silver coating with tarnish protection for high electrical conductivity and thermal conductivity.
- Suitable for conductor cross-sections up to 4.00 mm².

Application

- • For use with EPIC® H-Q 5 and EPIC® H-Q 7 rectangular connector inserts.

Technical Data

Contact resistance
< 2 mOhm



Termination methods
Crimp termination: 0.75 mm² ... 4.0 mm²



Material
brass silver plated



Cycle of mechanical operation
500



EPIC® Industrial connectors

Rectangular connectors • EPIC® H-Q 7 Inserts

NEW



EPIC® H-Q 7

Compact, 7-pole rectangular connector insert, powerful up to 10 A, for screw or crimpable PE contact.


Benefit


- Compact contact arrangement allows 7 contacts + 1 PE contact in a small installation space.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Protective earth (PE) can be connected in two ways: Variant „PE-S“ can be used with a PE screw contact, variant „PE-C“ with a PE crimp contact.
- Special PE crimp contact enables automated assembly of a completely vibration-proof connector.
- Mateable with market standard connectors.
- Suitable for conductor cross-sections from 0.14 - 2.50 mm².


Application


- For power supply connection of devices and machines in various applications.
- Suitable for wiring inside the control cabinet.
- Can be used with many EPIC® rectangular connector housings.

Technical Data


 **Rated voltage (V)**
400 V
Rated impulse voltage
6 kV


 **Rated current (A)**
10 A


 **Pollution degree**
3


 **Flammability**
UL94 V-0


Contact resistance
< 2 mOhm


 **Number of contacts**
7

 **Termination methods**
Crimp termination: 0.14 - 2.5 mm²
Crimp termination PE: 0.25 mm² ...4.0 mm²

 **Material**
Polyamide

 **Cycle of mechanical operation**
500

 **VDE-tested:**
UL: in preparation

 **Temperature range**
-40 °C to +120 °C




EPIC® Industrial connectors


Circular connectors • EPIC® POWER M12L


NEW





Technical Data


 **Rated voltage (V)**
63 V


 **Rated current (A)**
16 A


 **Pollution degree**
3

 **Number of contacts**
4, 4+PE

 **Termination methods**
0.75mm² - 2.5mm²

 **Material**
Housing: nickel-plated zinc die-casting,
nickel-plated brass
Insert: PA
Seal: FPM

 **Protection rating**
IP65/IP67/IP69

 **Temperature range**
-25 °C up to +125 °C

EPIC® POWER M12L D6

Smallest M 12 power connector available on the market, L-coded, for power supply in the low-voltage range (decentralised I/O modules, DC motors), PROFINET-compliant.

Benefit

- Coupling plug D6 for use with attachment housing G4 or cable plug F6.
- Powerful up to 16 A despite extremely space-saving size for very small devices.
- Mechanical L-coding of the mating face prevents mismatching with mating connector.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Suitable for conductor cross-sections from 0.75 - 2.50 mm².
- When plugged in, protection class IP 67 can be achieved.
- VDE-tested quality.
- UL certification according to technical data enables the use of the product in the North American region.
- Available as 4-pole variant with black insulating body and as 4+FE variant with grey insulating body and functional earth contact (FE).

Application

- For DC applications in the low-voltage range.
- For power supply of smaller devices (e.g. decentralised I/O modules, smaller motors).
- Also suitable for power supply in the PROFINET network (M12L is considered the standardised power interface there).

**PROFI
NET**




EPIC® Industrial connectors


Circular connectors • EPIC® POWER M12L


NEW





Technical Data


 **Rated voltage (V)**
63 V


 **Rated current (A)**
16 A


 **Pollution degree**
3

 **Number of contacts**
4, 4+PE

 **Termination methods**
0.75mm² - 2.5mm²

 **Material**
Housing: nickel-plated zinc die-casting,
nickel-plated brass
Insert: PA
Seal: FPM

 **Protection rating**
IP65/IP67/IP69

 **Temperature range**
-25 °C up to +125 °C

EPIC® POWER M12L G4

Smallest M 12 power connector available on the market, L-coded, for power supply in the low-voltage range (decentralised I/O modules, DC motors), PROFINET-compliant.

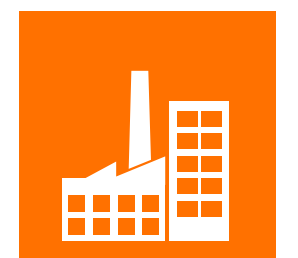
Benefit

- Attachment housing G4 in combination with coupling plug F6.
- Powerful up to 16 A despite extremely space-saving size for very small devices.
- Mechanical L-coding of the mating face prevents mismatching with mating connector.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Suitable for conductor cross-sections from 0.75 - 2.50 mm².
- When plugged in, protection class IP 67 can be achieved.
- VDE-tested quality.
- UL certification according to technical data enables using the product in the North American region.
- Available as 4-pole variant with black insulating body and as 4+FE variant with grey insulating body and functional earth contact (FE).

Application

- For DC applications in low-voltage range.
- For power supply of smaller devices (e.g. decentralised I/O modules, smaller motors).
- Also suitable for power supply in the PROFINET network (M12L is considered the standardised power interface there).

**PROFI
NET**




EPIC® Industrial connectors


Circular connectors • EPIC® POWER M12L


NEW





Technical Data


 **Rated voltage (V)**
63 V


 **Rated current (A)**
16 A


 **Pollution degree**
3

 **Number of contacts**
4, 4+PE

 **Termination methods**
0.75mm² - 2.5mm²

 **Material**
Housing: nickel-plated zinc die-casting,
nickel-plated brass
Insert: PA
Seal: FPM

 **Protection rating**
IP65/IP67/IP69

 **Temperature range**
-25 °C up to +125 °C

EPIC® POWER M12L F6

Smallest M 12 power connector available on the market, L-coded, for power supply in the low-voltage range (decentralised I/O modules, DC motors), PROFINET-compliant.

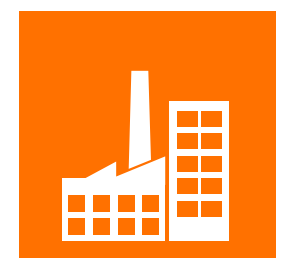
Benefit

- Cable connector F6 can be used with attachment housing A4 or coupling connector D6.
- Powerful up to 16 A despite extremely space-saving size for very small devices.
- Mechanical L-coding of the mating face prevents mismatching with mating connector.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Suitable for conductor cross-sections from 0.75 - 2.50 mm².
- When plugged in, protection class IP 67 can be achieved.
- VDE-tested quality.
- UL certification according to technical data enables using the product in the North American region.
- Available as 4-pole variant with black insulating body and as 4+FE variant with grey insulating body and functional earth contact (FE).

Application

- For DC applications in low-voltage range.
- For power supply of smaller devices (e.g. decentralised I/O modules, smaller motors).
- Also suitable for power supply in the PROFINET network (M 12L is considered the standardised power interface there).

**PROFI
NET**



EPIC® Industrial connectors

Circular connectors • EPIC® POWER M12L

NEW



Technical Data

Rated voltage (V)
63 V

Rated current (A)
16 A

Pollution degree
3

Number of contacts
4, 4+PE

Termination methods
0.75mm² – 2.5mm²

Material
Housing: nickel-plated zinc die-casting,
nickel-plated brass
Insert: PA,
Seal: FPM

Protection rating
IP65/IP67/IP69

Temperature range
-25 °C up to +125 °C

EPIC® POWER M12L A4

Smallest M 12 power connector available on the market, L-coded, for power supply in the low-voltage range (decentralised I/O modules, DC motors), PROFINET-compliant.

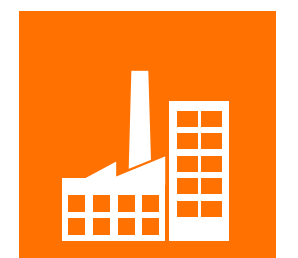
Benefit

- Surface-mount housing A4 for using the cable connector D6.
- Powerful up to 16 A despite extremely space-saving size for very small devices.
- Mechanical L-coding of the mating face prevents mismatching with mating connector.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Suitable for conductor cross-sections from 0.75 - 2.50 mm².
- When plugged in, protection class IP 67 can be achieved.
- VDE-tested quality.
- UL certification according to technical data enables using the product in the North American region.
- Available as 4-pole variant with black insulating body and as 4+FE variant with grey insulating body and functional earth contact (FE).

Application

- For DC applications in the low-voltage range.
- For power supply of smaller devices (e.g. decentralised I/O modules, smaller motors).
- Also suitable for power supply in the PROFINET network (M12L is considered the standardised power interface there).

**PROFI
NET**



EPIC® Industrial connectors

Circular connectors • EPIC® POWER M12L

NEW



EPIC® POWER M12L contacts

Contacts with multiple slots and conductor cross-section marking, for EPIC® POWER M12L power connectors.


Benefit


- Crimp contact ensures maximum contacting reliability between contact and cable and establishes a vibration-proof connection.
- With improved contacting due to multiple slots.
- Clear marking of the maximum conductor cross-section prevents incorrect assembly.
- With corrosion-resistant gold coating for low contact resistance and long product life.
- Suitable for conductor cross-sections up to 2.5 mm².

Application

- For use with EPIC® POWER M12L circular connectors.

Technical Data

 **Termination methods**
0,75mm² - 2,5mm²

 **Material**
brass gold plated CuZn/Au



EPIC® Industrial connectors

Rectangular connectors • EPIC® MH modular system module

NEW



EPIC® MH 2 40A

2-pole rectangular connector insert for modular system EPIC® MH, powerful up to 40 A, also for railway applications.


Benefit


- Module with 2 power contacts for power supply up to 40 A and voltages up to 1000 V.
- Modular assembled connectors are mateable with market standard connectors.
- Crimp connection creates a vibration-proof connection, ensures maximum contacting reliability between contact and cable and is suitable for automated assembly.
- Different crimp contacts available for different conductor cross-sections.
- Snaps effortlessly into the fixed EPIC® MH multi-frame with a clicking sound. Easier to assemble than folding and sliding frames.
- UL certification according to technical data enables use of the product in the North American region.


Application


- For the production of a modular connector insert.
- For power supply connection of devices and machines in various applications.
- Can be used in rail vehicles in compliance with standards (fire behaviour test according to DIN EN 45545-2:2016-02, requirement sets R22 and R23, hazard levels HL1, HL2 and HL3).

Technical Data


 **Rated voltage (V)**
1000 V AC/DC
Rated impulse voltage
8 kV


 **Rated current (A)**
40


 **Pollution degree**
3

 **Flammability**
UL94 V-0

Contact resistance
< 5 mOhm


 **Number of contacts**
2

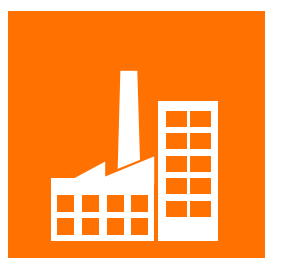
 **Termination methods**
Crimp termination: 1.5 - 10 mm²

 **Material**
Polyamide, glass fibre-reinforced

 **Cycle of mechanical operation**
500

 **VDE-tested:**
UL: in preparation

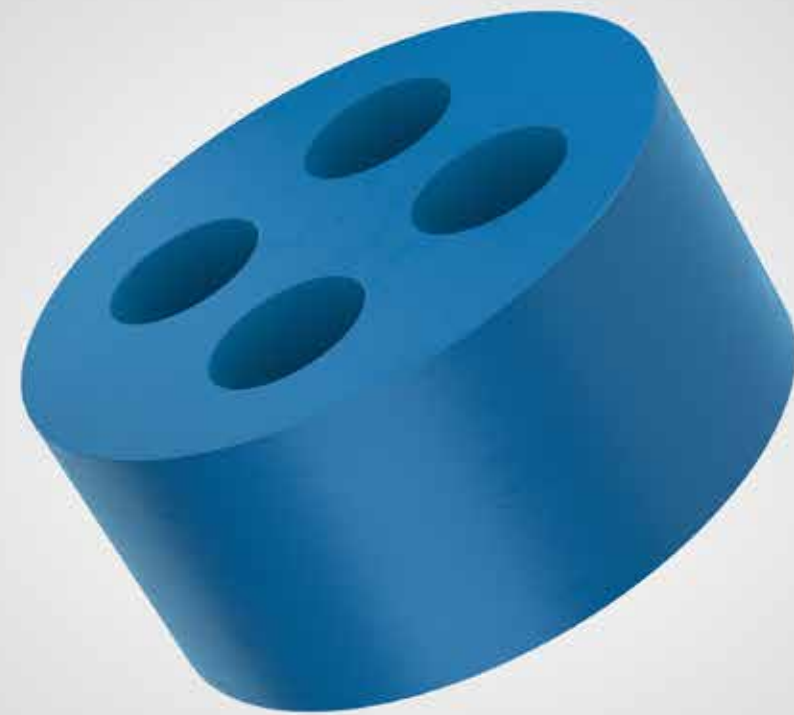
 **Temperature range**
-40 °C
+125 °C



Cable glands

SKINTOP® cable gland accessories metric • Multiple sealing inserts/dust protection

NEW



Technical Data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000032
ETIM 5.0/6.0 Class-Description: Plug for cable screw gland

On request
Special shapes
Colour delivered
Black, RAL 9005
Blue, RAL 5017

Material
NBR, FKM, silicone

IP Protection rating
IP 54
IP 68 (at maximum use of all boreholes)

Temperature range
NBR: -40 °C bis +100 °C
FKM: -20 °C bis +200 °C
silicone: -50 °C bis +200 °C

SKINTOP® DIX-M

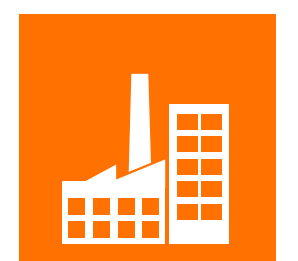
Multiple sealing insert made of NBR (oil resistant), FKM (heat resistant) or silicone (chemical resistant), leads several cables through one cable gland.

Benefit

- Easy insertion of several cables through one cable gland.
- Multiple cable insertion enables higher packing density.
- Gentle clamping of the cables due to the high elasticity of the sealing insert material.
- Protection class IP 68 can be achieved, if all holes are used by cables with nominal diameter and unused openings are closed with SKINTOP® DIX-DV sealing plugs.
- Variety of versions available, depending on the number and diameter of cables. Made of acrylonitrile butadiene rubber (NBR), fluororubber (FKM) or silicone (SI).
- The NBR variants are oil-resistant.
- The FKM variants are resistant to aggressive media such as alkalis, acids, solvents and are also oil-resistant. They are extremely heat-resistant and suitable for use with extreme high temperatures (up to +200 °C).
- The silicone variants are resistant to ECOLAB® cleaning agents and disinfectants and are chemically resistant in many cases. They conform to FDA 21 CFR 177.2600 and are therefore permitted for food and beverage industry. With their blue colour, they can easily distinguish from food. In addition, they are extremely flexible at low temperatures and suitable for use at extreme minus temperatures (down to -50 °C).

Application

- For use with metric SKINTOP®/SKINTOP® CLICK cable glands.
- Suitable for outdoor use.



Cable glands

SKINTOP® cable bushing systems • Cable bushing systems

NEW



SKINTOP® MULTI VENT

WHAT IS NEW? Multiple entry for up to 29 cables, with breathable pressure compensation element for venting when enclosures are closed.

Benefit

- Multiple insertion of cables enables higher packing density (up to 29 cables depending on the variant).
- Large clamping areas, each variable by 4 mm for different cable diameters as well as clamping areas especially for AS-I bus cables.
- Flexibility in the choice of cable diameters reduces the variety of parts in the warehouse and provides logistical and cost advantages.
- Direct cable entry without pre-piercing the bushings thanks to elastic gel technology with innovative membrane technology.
- Includes breathable pressure compensation element, which provides the necessary pressure compensation in closed enclosures. This completely prevents the ingress of moisture.
- Clear marking of the feed-through points and clamping areas. There is no potential for errors during cable entry.
- Simple mounting of the multiple insertion on the enclosure by means of 4 fastening screws. The adhesive effect of the sealing gel allows an easy positioning of the product during assembly.
- Available in different versions for a wide range of applications.

Application

- For sealing and strain-relieving multiple insertion of non-assembled cables and media hoses through a housing.
- Specialized for closed enclosures to achieve optimum ventilation.
- Can be used in dry, humid and oily environments.
- Suitable for outdoor use.

Technical Data

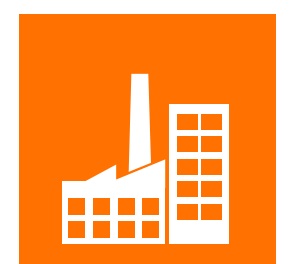
Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000240
ETIM 5.0/6.0 Class-Description:
Cable entry

Note
Individual hole configuration on request

Material
Frame: Polycarbonat
Sealing: Gel
Pressure compensation unit: PBT,
PTFE, NBR

Protection rating
IP 68

Temperature range
-30 °C to +100 °C




Cable glands


SKINDICHT® cable gland accessories PG • Adapter


NEW



Technical Data

 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000441
ETIM 5.0/6.0 Class-Description: Cable screw gland

 **Material**
Nickel-plated brass

 **Temperature range**
-60 °C to +200 °C

SKINDICHT® MA-PG/M

Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).

Benefit

- Enables easy transition from a PG male thread to a metric female thread.
- Withstands temperatures up to +200 °C.
- Available for thread sizes up to PG36 or up to M40.
- Form A in easy-grip knurled design for easy screwing in of the adapter even in oily environments; form B in smooth design.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.

Application

- For applications with different types of threads.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.



Cable glands

SKINDICHT® cable gland accessories metric • Blind plugs

NEW



SKINDICHT® BL-M

Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).


Benefit


- Withstands temperatures up to +200 °C.
- Simple assembly by using a slotted screwdriver.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.


Application


- For closing an unoccupied metric threaded hole on the housing.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.


Technical Data


 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000032
ETIM 5.0/6.0 Class-Description: Plug for cable screw gland

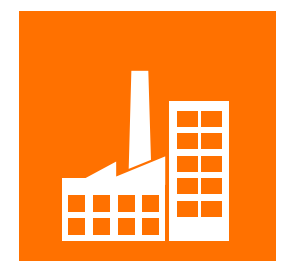
 **Certifications**
UL File E79903

 **On request**
Fitted with FKM O-ring (-20 °C to +200 °C)

 **Material**
Body: nickel-plated brass
O-ring: NBR

 **Protection rating**
IP 54
IP 68 (with O-ring)

 **Temperature range**
With O-ring: -20 °C to +100 °C
Without O-ring: -60 °C to +200 °C



Cable glands

SKINDICHT® cable gland accessories metric • Blind plugs

NEW



SKINDICHT® BL-M hex.

Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).

Benefit

- Withstands temperatures up to +100 °C.
- Mounted O-ring enables liquid-tight sealing of the threaded/through hole and for that reason a higher degree of protection (up to IP 68).
- Simple assembly by using an open-end spanner.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.

Application

- For closing an unoccupied metric threaded hole on the housing.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.

Technical Data

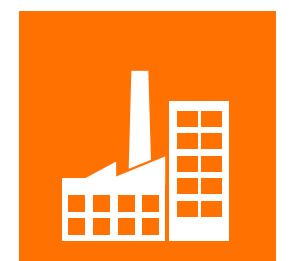
Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000032
ETIM 5.0/6.0 Class-Description: Plug for cable screw gland

On request
Fitted with FKM O-ring (-20 °C to +200 °C)

Material
Body: nickel-plated brass
O-ring: NBR

Protection rating
IP 68 - 5 bar

Temperature range
-20 °C to +100 °C




Cable glands


SKINDICHT® cable gland accessories metric • Reducers


NEW




Technical Data

 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000441
ETIM 5.0/6.0 Class-Description: Cable screw gland

 **On request**
Also available with pre-installed O-ring

 **Material**
Nickel-plated brass

 **Temperature range**
-60 °C to +200 °C

SKINDICHT® MR-M

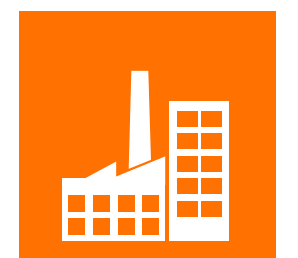
Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).

Benefit

- Corrects the size difference between the connection thread of a cable gland and the threaded hole in an enclosure.
- Provides flexibility in the selection of a cable gland, as the selection is independent to the threaded hole of the enclosure.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.

Application

- For use with a metric cable gland whose connection thread is smaller than the existing threaded hole.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.



Cable glands

SKINDICHT® cable gland accessories metric • Reducers

NEW



SKINDICHT® MR-M hex.

Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).


Benefit


- Corrects the size difference between the connection thread of a cable gland and the threaded hole in an enclosure.
- Provides flexibility in the selection of a cable gland, as the selection is independent to the threaded hole of the enclosure.
- Mounted O-ring enables a higher protection class (IP) for a cable gland due to the secure seal to the enclosure.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.


Application


- For use with a metric cable gland whose connection thread is smaller than the existing threaded hole.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.

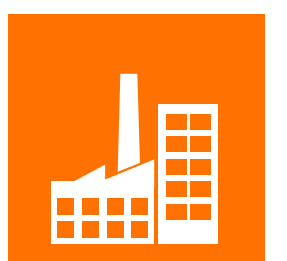
Technical Data

 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000441
ETIM 5.0/6.0 Class-Description: Cable screw gland

 **On request**
Also available with pre-installed O-ring

 **Material**
Nickel-plated brass

 **Temperature range**
-60 °C to +200 °C



Cable glands

SKINDICHT® cable gland accessories metric • Enlargers

NEW



SKINDICHT® ME-M

Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).


Benefit


- Corrects the size difference between the connection thread of a cable gland and the threaded hole in an enclosure.
- Provides flexibility in the selection of a cable gland, as the selection is independent of the threaded hole of the enclosure.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.


Application


- For use with a metric cable gland whose connection thread is larger than the existing threaded hole.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.

Technical Data

 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000441
ETIM 5.0/6.0 Class-Description: Cable screw gland

 **On request**
with O-ring fitted

 **Material**
Nickel-plated brass

 **Temperature range**
-60 °C to +200 °C




Cable glands


SKINDICHT® cable gland accessories metric • Counter nuts


NEW



Technical Data

 **Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000940
ETIM 5.0/6.0 Class-Description:
Locknut for cable screw gland

 **Material**
Nickel-plated brass

 **Temperature range**
-60 °C to +200 °C

SKINDICHT® SM-PE-M

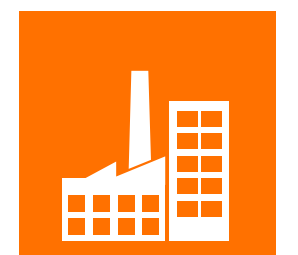
Cable gland accessories made of lead-free brass to comply with future RoHS regulations (product characteristics identical to lead-containing articles).

Benefit

- Optimum contacting of a coated enclosure for protection against electromagnetic interference and for equipotential bonding.
- Contact is achieved when the locknut is tightened by the cutting edges scratching the coated layer of the housing.
- Withstands temperatures up to +200 °C.
- Article numbers ending in „LF“ are lead-free product alternatives with the same product properties. „Lead-free“ articles do not contain lead, which is currently still allowed to make up to four percent in copper alloys. It could be banned in the future according to the RoHS Directive.

Application

- For use on the inside of painted, anodised or powder-coated enclosures.
- Can be used with metric SKINTOP® and SKINDICHT® cable glands for applications where electromagnetic compatibility (EMC) is required.
- Withstands high chemical and mechanical stress.
- Suitable for outdoor use.





ETHERNET DATA TRANSMISSION

YOUR HIGHWAY FOR BIG DATA

NEW: Spring 2022

+ Coloured Clips for ETHERLINE® Patchcords

Coloured clip for RJ45 connectors to extend the latching lug and improve colour identification on LAPP Ethernet patch cables.

+ ETHERLINE® Cat. 6_A FD FC

Highly flexible 26 AWG Ethernet cable with Fast-Connect connection for permanently moving use in drag chains and short transmission distances.

+ SKINTOP® DIX-M AUTOMATION

Multiple sealing insert with longitudinal cut for assembled data cables, IP 68 sealing.



ETHERNET DATA TRANSMISSION: YOUR HIGHWAY FOR BIG DATA



COLOURED CLIPS FOR ETHERLINE® PATCHCORDS

To keep an order in the control cabinet is very important. Especially in switches with recessed sockets and high port density, RJ45 connectors are often difficult to grip. Our clips, which extend the latching lug of the connector, provide a remedy for this. They are also used for colour coding of otherwise identically coloured cables and are suitable for all RJ45 patch cables from LAPP.



ETHERLINE® CAT. 6_A FD FC

The Ethernet cable with 26 AWG conductor cross-section is your perfect companion for data communication with short transmission distances. Thanks to its „Fast-Connect“ design, it can be assembled quickly and used in drag chains in a highly flexible manner. Choose between a PVC or PUR outer sheath, depending on the environmental conditions in your system.



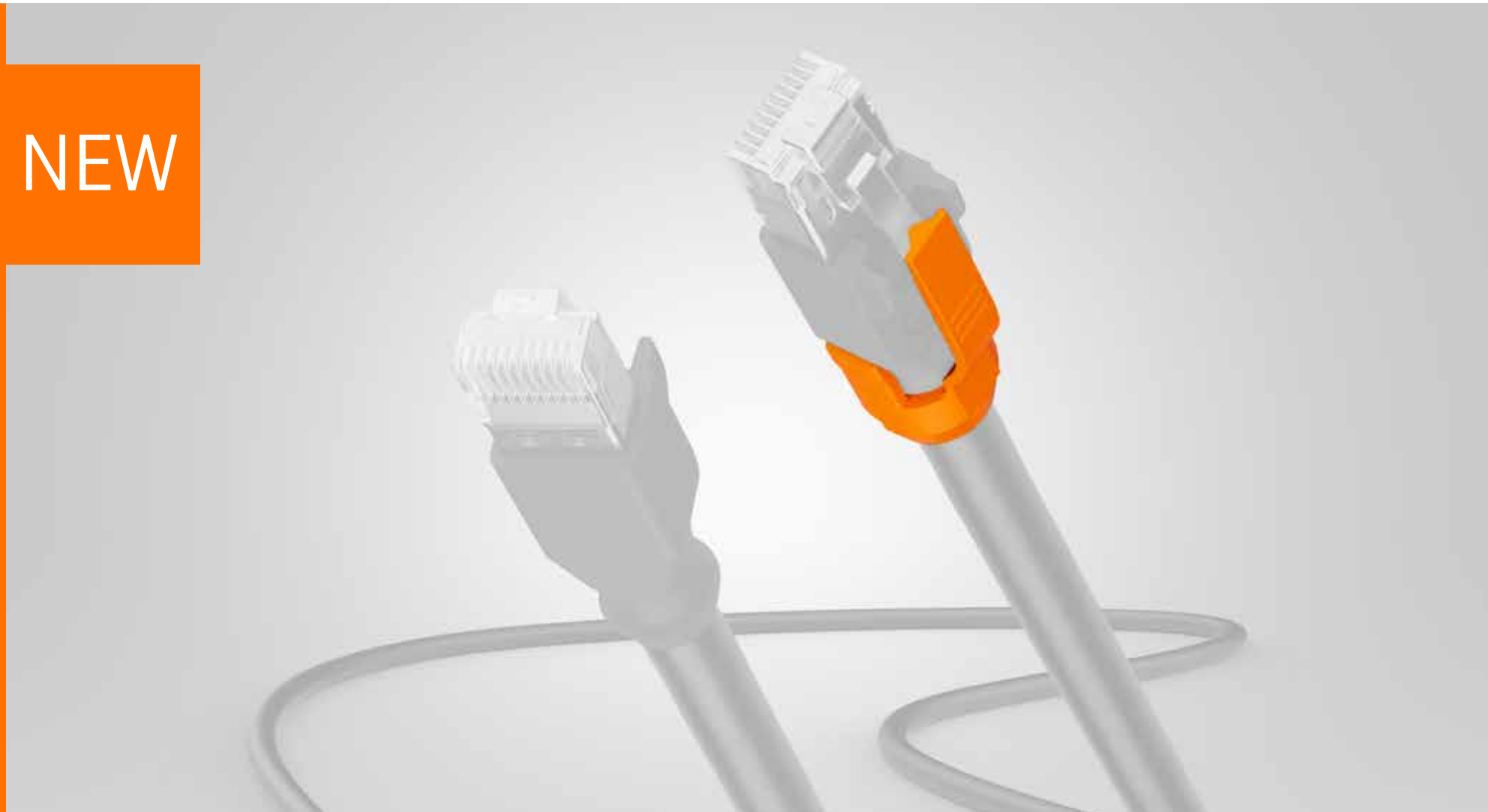
SKINTOP® DIX-M AUTOMATION

Precise fit due to lengthwise slot! With this multiple sealing insert, you can easily insert up to four assembled data cables through your cable gland thanks to the longitudinal cut. Depending on the variant, the insert has a different number of pre-drilled holes for optimum sealing with a defined clamping range.

Data communication systems for ETHERNET technology

Industrial Ethernet, Accessories • Accessories Cable assemblies

NEW



Technical Data



Klassifikation ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC002310



Material Kontakt
Polyoxymethylene (POM)

Coloured Clips for ETHERLINE® Patchcords

Coloured clip for RJ45 connectors to extend the latching lug and improve colour identification on LAPP Ethernet patch cables.

Benefit

- Extends the latching lug of the RJ45 connector and thus ensures a better grip.
- Used for better colour identification on Ethernet patch cables when many cables of the same colour are used (e.g. in the PROFINET network).
- Available in different colours.

Application

- For use in the control cabinet.
- For use with ETHERLINE® RJ45 patch cables from LAPP.
- Especially for devices with very high port density.
- Especially for switches with deep internal sockets.



Data communication systems for ETHERNET technology

Industrial Ethernet, Cat.6_A • Cables for continuous flexing applications

NEW



Technical Data

Peak operating voltage
(not for power applications)
125 V

Minimum bending radius
Flexing: 8 x outer diameter
Fixed installation: 4 x outer diameter

Characteristic impedance
nom. 100 W acc. to IEC 61156-6

Temperature range
cable halogenfree compound
Fixed installation: -25 °C to +80 °C
cable with PVC jacket
Fixed installation: -40 °C to +80 °C

ETHERLINE® Cat. 6_A FD FC

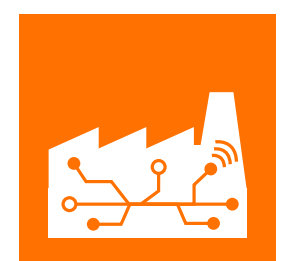
Highly flexible 26 AWG Ethernet cable with Fast-Connect connection for permanently moving use in drag chains and short transmission distances.

Benefit

- The „Fast Connect“ construction including inner sheath and separating cross significantly reduces the cable’s assembly time, as the time-consuming removal of the pair shielding is no longer necessary. In addition it offers undiminished shielding of the wire pairs from each other.
- Additional protection against electromagnetic interference through double overall shielding made of aluminium-laminated foil and copper shielding braid with a high degree of coverage (SF/UTP).
- UL certification according to technical data enables the use of the product in the North American region.
- Fast information exchange through Ethernet technology.
- Cat.6_A performance up to 10 Gbit/s.
- For transmission of analogue and digital signals in the frequency range up to 500 MHz.
- Available with robust PVC outer sheath or abrasion-resistant PUR outer sheath.
- Successfully tested for over 1 million bending cycles in the drag chain.

Application

- Cable design allows highly flexible, continuously moving use in moving machine parts and in the drag chain.
- Usable in dry, damp and wet environments.
- Usable in a variety of ways depending on the sheath material.



Cable glands

SKINTOP® cable gland accessories metric • Multiple sealing inserts/dust protection

NEW



Technical Data

Classification ETIM 5/6
 ETIM 5.0/6.0 Class-ID: EC000032
 ETIM 5.0/6.0 Class-Description: Plug
 for cable screw gland

On request
 Special shapes
 Colour delivered
 Black, RAL 9005

Material
 NBR

IP Protection rating
 IP 54
 IP 66 and IP 68 - 5 bar, 30 min (only
 applies to slotted DIX inserts if the
 specified clamping range is observed)

Temperature range
 -40 °C to +100 °C

SKINTOP® DIX-M AUTOMATION

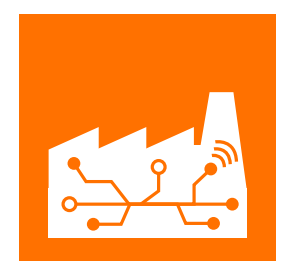
WHAT IS NEW? Multiple sealing insert with longitudinal cut for assembled data cables, IP 68 sealing.

Benefit

- Special design with a round pilot hole and longitudinal cut for an easy insertion of one or more assembled data cables.
- Protection class IP 68 can be achieved if the holes are optimally covered.
- High functional safety thanks to optimal strain relief.

Application

- For use with metric SKINTOP®/SKINTOP® CLICK cable glands.
- To be used instead of the standard sealing insert in the SKINTOP® cable gland.
- UV and oil resistant material.



LEGEND

NEW PRODUCT



PRODUCT EXTENSION



PRODUCT CHARACTERISTICS



Suitable for outdoor use



Good chemical resistance



Flame-retardant



Wide clamping range



Halogen-free



Heat-resistant



Cold-resistant



Corrosion-resistant



Maximum vibration protection



Mechanical resistance



Assembly time



Low weight



Oil-resistant



Optimum strain relief



Space requirement



Power Chain



Clean room



Robust



Acid-resistant



Reliability



Integrated SKINTOP® cable gland



Voltage



Connector with standard housing unit



Interference signals



Temperature-resistant



Torsion-resistant



Torsion load



UV-resistant



Waterproof



Variety of approval certifications



Submersible use

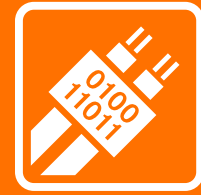
Please note:
The purpose of the icons is to provide you with a quick overview and a rough indication of the product features to which the corresponding information relates. You can find details of product characteristics in the “technical data” sections on the product pages.



ÖLFLEX®
Power and control cables



EPIC®
Industrial connectors



UNITRONIC®
Data communication systems



SKINTOP®
Cable glands



ETHERLINE®
Data communication systems
for ETHERNET technology



SILVYN®
Protective cable conduit systems
and cable carrier systems



HITRONIC®
Optical transmission systems



FLEXIMARK®
Marking systems

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Due to the current material shortages,
delivery times may be longer.