



**HEAVYCON complete
heavy-duty connectors**
Compatible insertion –
flexible combination

PHOENIX CONTACT – in dialog with customers and partners worldwide

Phoenix Contact is a global market leader in the fields of electrical engineering, electronics, and automation. Founded in 1923, the family-owned company now employs around 14,000 people worldwide. A sales network with over 300 sales subsidiaries and more than 300 additional global sales partners guarantees customer proximity directly on site, anywhere in the world.

Our range of services consists of all kinds of products with a wide range of electrotechnical applications. This includes numerous connection technologies for device manufacturers and machine building, components for modern control cabinets, and tailor-made solutions for many applications and industries such as the automotive industry, wind energy, solar energy, the process industry or applications in the fields of water supply, power transmission/distribution, and traffic infrastructure.



Global player with personal customer contact

Company independence is an integral part of our company philosophy. Phoenix Contact therefore relies on in-house knowledge and expertise in countless respects. The design and development departments constantly implement innovative product ideas, developing special solutions to meet customer requirements. Numerous patents emphasize the fact that many of Phoenix Contact's products have been developed in-house.



HEAVYCON complete – The right connector for every application



Find out more with the web code

In this brochure, you will find our web codes: a number sign followed by a four-digit number combination.

i Web code: #1234 (example)

This allows you to reach information on our website quickly.

It couldn't be simpler:

1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
3. Receive more information and product versions

Or use the direct link:
phoenixcontact.net/webcode/#1234

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HEAVYCON complete – The right connector for every application

Heavy-duty connectors from the HEAVYCON complete series protect your interfaces and ensure safe power, data, and signal transmission even under the harshest conditions. They resist dirt, water, vibrations, and high mechanical load and remain sealed up to IP69K degree of protection. You can always create the right plug-in connection for your requirements with housings from our three series and matching contact inserts which can be combined.

Metal housings are EMC-ready

Due to conductive surfaces and seals, all HEAVYCON metal housings are “EMC-ready”.

Combined with shielded cable glands, they offer you reliable protection in electromagnetic surroundings.



Wind turbine generators

In wind turbine generators, cables and lines are connected several times using connectors. This is the only way that large plants can be installed quickly and cost-effectively. The interfaces must be resistant to corrosion, robust, and as light as possible. This is where the HEAVYCON EVO series comes into its own.



Automotive industry

Robust, hard-wearing connectors are used on assembly lines in the automotive industry. As such, you save costs during transport, startup, and maintenance. The HEAVYCON STANDARD metal connectors are ideal here, in order to ensure fast assembly and a high degree of availability.



Control cabinet manufacturing, machine building and systems manufacturing

Reliable interfaces are an absolute must in state-of-the-art systems. As the system's complexity increases, there is less and less installation space available. Combine virtually every plug-in connection with the HEAVYCON complete product range – optimally tailored to your space requirements and assembly effort.



HEAVYCON provides the right connector with matching connection technology for every application: with plug-in compatibility and flexible combinations.

HEAVYCON complete



HEAVYCON STANDARD – Proven versatility

STANDARD housings are distinguished by a wide range of robust metal housings with various different cable outlet directions and locks.

- High corrosion resistance
- Flexible single or double locking latches
- Mounting- and plug-in-compatible
- EMC-ready



HEAVYCON EVO – Ingenious flexibility

The flexible, swiveling bayonet locking of the EVO series allows the cable outlet direction to be freely selected.

- On-site selection of cable outlet direction
- Lower logistics costs
- Flexible single or double locking latches
- Mounting- and plug-in-compatible
- Metal housings: EMC-ready



HEAVYCON ADVANCE – Robust without compromise

ADVANCE housings are particularly durable and robust, thanks to the direct screw locking without panel mounting base.

- Ideal for increased environmental requirements thanks to high degree of protection
- Cost advantage with direct mounting
- Mounting-compatible
- Metal housings: EMC-ready

HEAVYCON complete – Free combination is your competitive advantage

The entire HEAVYCON complete product range consists of metal and plastic housings, contact inserts, cable glands, and accessories.

All housing series fit standard panel cutouts. STANDARD and EVO housings require a panel mounting base for the panel feed-through.

ADVANCE housings can be mounted directly onto the wall using the panel mounting flange.

The sleeve housing, panel mounting base, box mounting base, and coupling housings can be freely combined with each other within the STANDARD and EVO series. They are mounting- and plug-in-compatible with aluminum housing units from well-known manufacturers. This allows all components to be individually combined and flexibly modified, extended or replaced.

Our contact inserts with a fixed number of positions and modular contact inserts naturally fit into all housing series.

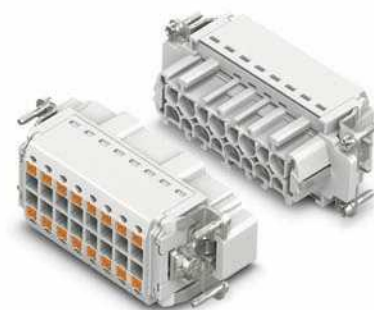
HEAVYCON complete

HEAVYCON STANDARD

Sleeve housing



Contact inserts



Fixed number of positions

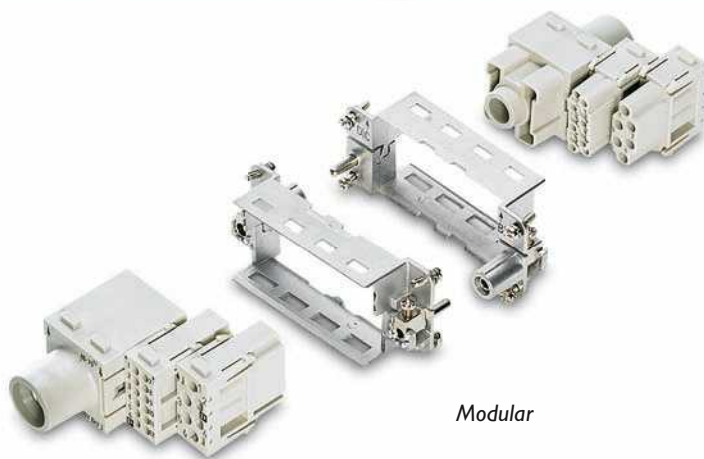
Panel mounting base



HEAVYCON EVO



HEAVYCON ADVANCE



Modular



Panel mounting flange

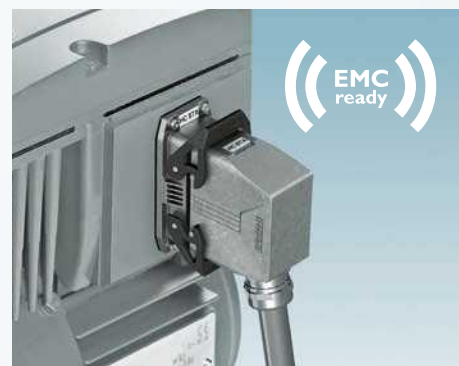


HEAVYCON STANDARD – Proven versatility

HEAVYCON STANDARD housings with fast and reliable locking latch are suitable for many applications.

The robust metal housings resist dirt, water, vibrations, and high mechanical loads.

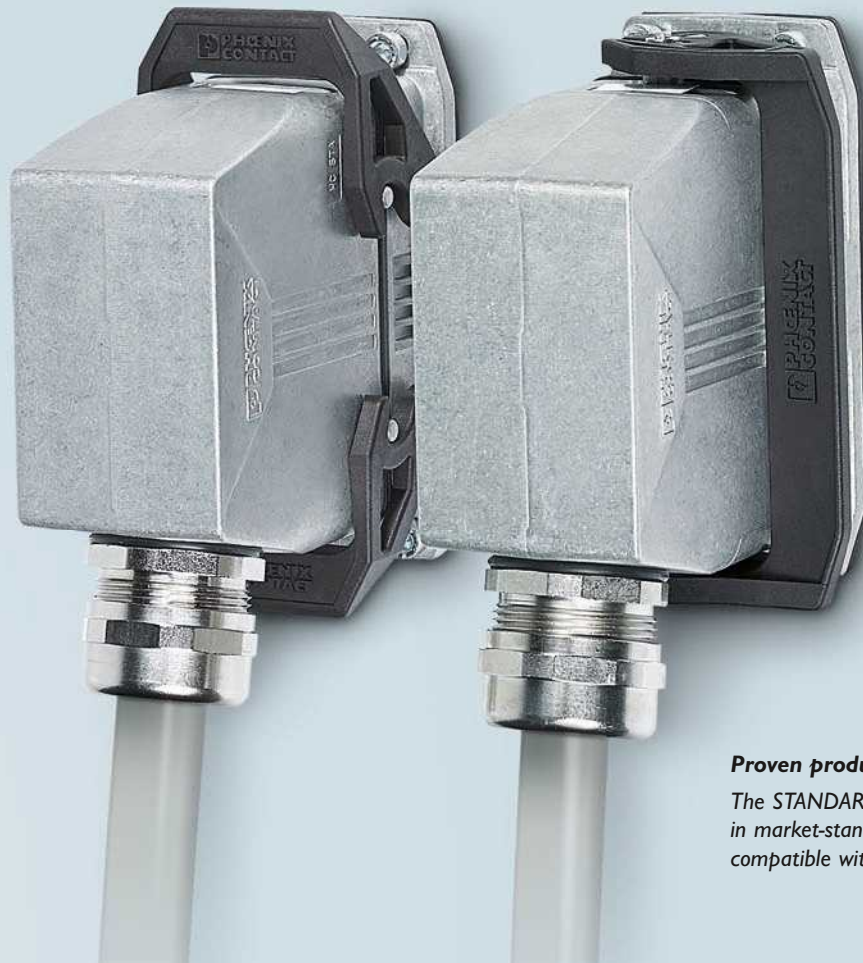
HEAVYCON STANDARD and EVO housings are equipped with single locking latches and double locking latches. Various supporting base elements such as panel mounting bases, box mounting bases or coupling housings are available depending on the application.



EMC protection

The housing surfaces and seals are electrically conductive.

Combined with shielded cable glands, they offer you reliable EMC protection.



Proven product range

The STANDARD housings are available in market-standard sizes and are fully compatible with the industry standard.



Convenient locking latch

The locking latch can be manually pressed quickly and easily. Housing with a single locking latch is ideal for alignment lengthways. Double locking latches can be installed sideways and save space. The locking latches comprise special, glass-reinforced polyamide.



Various different outlet directions

Select from our wide housing range according to your requirements. We offer you sleeve housings with straight or lateral outlet for all common metric and Pg thread sizes.



For the harshest conditions

The robust metal housings are made from particularly corrosion-resistant die-cast aluminum, which is resistant to aggressive industrial conditions and high mechanical loads. They are sealed up to IP69K degree of protection

HEAVYCON EVO – Ingenious flexibility

Switch to HEAVYCON EVO now and save on material and storage costs. You can use the angled EVO cable entry to save up to 70% the number of versions. The use of high-quality materials and full compatibility with the industry standard enable failsafe use in a wide range of applications.

Depending on the application, select a cost-effective plastic housing or an EMC-compatible metal housing.



HEAVYCON EVO housing units reduce the variety of versions required, thereby cutting your storage costs by up to 70%. Using just one housing type and four cable glands, you can implement solutions for every possible application – whether with straight or lateral entry.



EMC protection

The housing surfaces and seals of the metal series are electrically conductive. Combined with shielded cable glands, they offer you reliable EMC protection.



Flexible connection in no time at all

The cable gland, which is separate from the housing, is securely locked with just a twist of the wrist thanks to the bayonet locking, without the need for special tools.



Convenient locking latch

The locking latch can be manually pressed quickly and easily. Housing with a single locking latch is ideal for alignment lengthways. Double locking latches can be installed sideways and save space. The locking latches comprise special, glass-reinforced polyamide.



Two outlet directions with one housing

Thanks to the flexible bayonet locking, you can determine the cable outlet direction on site and subsequently change it, if required. The straight outlet enables closer cable routing along the panel; the lateral entry can be assembled without bending the cable.



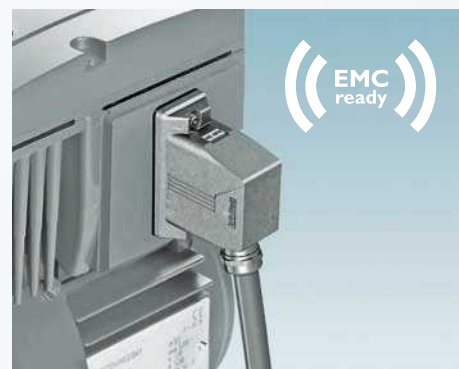
For harsh conditions

EVO connectors are tested for use in various industrial applications. The plastic housing, made from special, glass-reinforced polyamide, meets IP66 and NEMA 4X degree of protection; the metal housing meets IP66/IP67/IP69K and NEMA 4X/6P.

HEAVYCON ADVANCE – Robust without compromise

HEAVYCON ADVANCE heavy-duty connectors with screw locking are ideally suited for particularly aggressive surroundings, e.g., in offshore areas, the chemical or railway industry. Sensitive interfaces are reliably protected, even against EMC influences.

For the panel feed-through, the panel mounting base typically used has been replaced by two single panel mounting flanges, thereby reducing assembly and material costs. As such, the sleeve housing forms a seal directly on the control cabinet panel.



EMC protection

The housing surfaces and seals of the metal series are electrically conductive. Combined with shielded cable glands, they offer you reliable EMC protection.



Save space and costs

ADVANCE housings do not need a panel mounting base on the device side.



Robust screw locking

ADVANCE housings do not need a panel mounting base on the device side. Mount the sleeve housing with two panel mounting flanges and robust stainless steel locking screws directly onto the wall. This not only saves time and costs, but also offers a high degree of leak-tightness and makes it more difficult for unauthorized persons to access.



Cost-efficient designs

You save assembly and material costs, as the typical panel mounting base is no longer needed. Additional savings potential is offered by the low design of the metal housings and molded cable glands of the plastic design.



For the harshest conditions

The resistant plastic housings meet IP68 protection. The two metal housing versions made from corrosion-resistant die-cast aluminum are reliably protected up to IP68/69K protection. Usage ranges for ADVANCE housing include, for example, wind turbine generators, drilling platforms or the rail and chemical industry.

HEAVYCON complete – Quality in every application

The quality of our products is our top priority. This is not tested subsequently on finished products, but is ensured responsibly during every step of production.

A process-oriented, integrated management system ensures that not only legislation and standards, but also customer requirements are taken into account in the manufacturing of our products.



IP and NEMA degrees of protection DIN EN 60529, NEMA 250

Protection of contact inserts within the housing against ingress of dust or heavy jet water is examined here.

For HEAVYCON connectors, no visible dust or water ingress could be detected within the housing.



Vibration IEC 60068-2-6

Harmonic, sinusoidal vibrations are applied to the test object to simulate rotating, pulsating or oscillating forces during the vibration test.

HEAVYCON connectors meet these requirements and are therefore suitable for applications on construction vehicles and machinery, for example.



Temperature shock IEC 60512-11-4, test 11d

To simulate significant temperature differences, the test objects are switched between the lower and upper limiting temperature of the product within a few seconds in a two-chamber procedure.

HEAVYCON connectors are suitable for applications at an ambient temperature of -40°C to $+125^{\circ}\text{C}$ with constant temperature response.

HEAVYCON connectors are tested according to numerous national and international standards and are suitable for many applications.



**Impact resistance IK09
DIN EN 50102**

The impact resistance is tested with a free-fall hammer with a weight of 1.7 kg from a height of 0.3 m.

HEAVYCON plastic connectors with IK09 are impact-resistant to the same degree as aluminum connectors or control boxes. They therefore meet the mechanical requirements of heavy-duty industrial connectors.



**Roll-over
according to DIN IEC 62196-1**

A special test is carried out on the plastic housing whereby a forklift truck weighing several tons is rolled over the housing.

HEAVYCON plastic housings withstand high stresses from heavy, moving loads without any adverse effects on function and are therefore ideal for use in industrial environments.



**Dynamic loading
HEAVYCON EVO special test**

In this test, a force of 200 N is applied to the cable in 50 cycles at an angle of 90°.

This test verifies that the HEAVYCON EVO bayonet locking and the double locking latch between the housing and panel mounting frame do not open independently or malfunction even in the case of extremely static loads.

Inserts with a fixed number of positions and modular inserts – The right connection technology for every application

Our contact inserts offer you consistently compatible interfaces, which can be flexibly combined, for all conventional sizes.

In addition to versions with a fixed number of positions – even for mixed assembly – modular contact inserts are available in various performance classes and with a variety of connection technologies.

Fast connection technology such as push-in or QUICKON displacement connection enables cable connection within seconds.

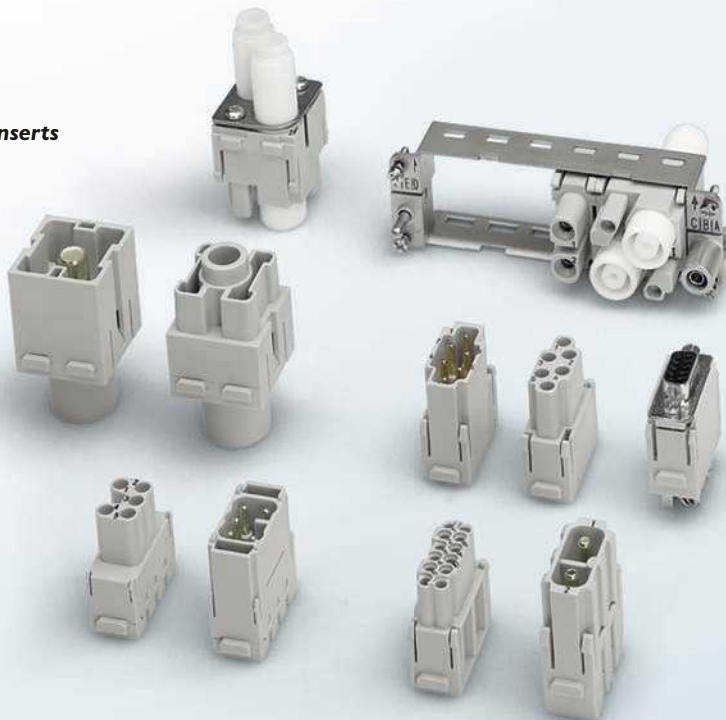
Flexible combination

Transmit current, data, and compressed air flexibly with modular contact inserts via a single plug-in connection. Simply snap the modules into the hinged retaining frame, and your individual contact insert is done!

Your advantages:

- Save space and installation work
- Reduce interfaces

Modular contact inserts



User-friendly push-in connection

Contact inserts with push-in connection provide easy handling, extremely short connection time, and an air-tight, vibration-proof, and shock-proof connection. Stranded conductors with splicing protection or solid conductors can be inserted directly into the connection without any tools. The orange colored button can be used to remove the conductor without any special tools.

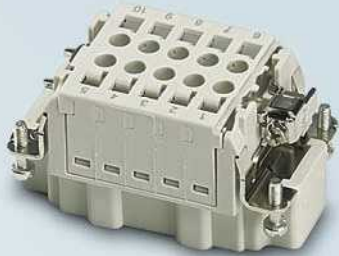
Push-in connection



Screw connection



Contact inserts with various connection technologies – for safe and convenient wiring.



Crimp connection



QUICKON connection



Fast QUICKON connection

Save up to 60% of wiring time: with contact inserts with QUICKON displacement connection, connect solid and stranded conductors in a flash without any prior processing. Simply route the unstripped cores through the connection and wire the slider with a screwdriver. The wire insulation is severed and large-surface, gas-tight contact is made.



Fast, cost-effective coding

It is often necessary to protect identical connectors which are located next to each other from being interchanged. In contrast to previous coding methods, such as coding bolts, pins or sockets, HEAVYCON contact inserts are quickly coded by snapping in plastic coding profiles.




Space-saving terminal adapters

Terminal adapters connect the marshalling and marking options for terminal blocks with fast startup of connectors. You therefore save space and installation work.

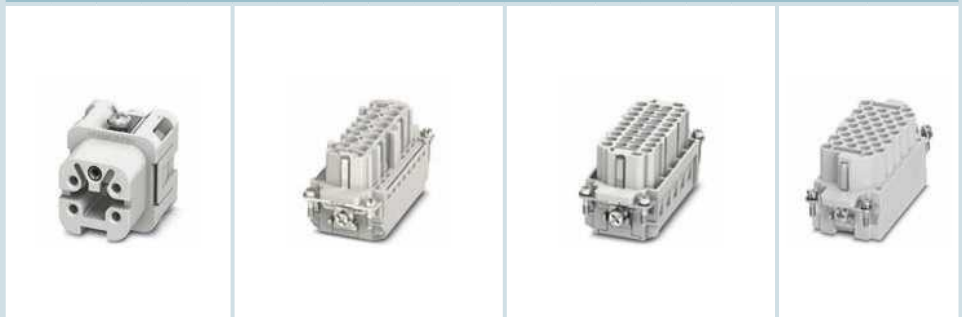
System cross-reference list: HEAVYCON housings and contact inserts

The system cross-reference list illustrates which contact insert matches which housing type.

Configure complete HEAVYCON connectors easily and quickly with our configurator:

 Web code: #0003

HEAVYCON contact inserts



| Series | A | | | | | B | | | | | | BB | | | | | BBB | | |
|---------------------|---------|----|-----|-----|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|------|------|-----|-----|
| Number of positions | 3 | 4 | 10 | 16 | 2x16 | 6 | 10 | 16 | 24 | 2x16 | 2x24 | 10 | 18 | 32 | 46 | 2x32 | 2x46 | 40 | 64 |
| Size | D7 | D7 | D15 | D25 | D50 | B6 | B10 | B16 | B24 | B32 | B48 | B6 | B10 | B16 | B24 | B32 | B48 | B16 | B24 |
| Rated voltage | 230/400 | | 250 | | | 500 | | | | | | 500 | | | | | 500 | | |
| Rated current | 24 | | 20 | | | 16 | | | | | | 16 | | | | | 16 | | |












| Connection methods | UT = Screw | UT | | | | | UT | | | | | | | | | | | | | | | |
|--------------------|------------------|----|--|----|--|--|----|--|--|--|--|--|----|--|--|--|--|----|--|---|--|--|
| | CT = Crimp | | | CT | | | CT | | | | | | CT | | | | | CT | | | | |
| | PT = Push-in | | | | | | | | | | | | PT | | | | | | | | | |
| | Z = Spring-cage | | | | | | | | | | | | | | | | | | | | | |
| | Q = IDC/QUICKON | Q | | | | | | | | | | | | | | | | | | Q | | |
| | L = Fiber optics | | | | | | | | | | | | | | | | | | | | | |
| | A = Axial screw | | | | | | | | | | | | | | | | | | | | | |
| | P = Pneumatic | | | | | | | | | | | | | | | | | | | | | |

| Series | A | | | | | B | | | | | | BB | | | | | BBB | | |
|---------------------|----|---|----|----|------|----|----|----|----|------|------|----|----|----|----|------|------|----|----|
| Number of positions | 3 | 4 | 10 | 16 | 2x16 | 6 | 10 | 16 | 24 | 2x16 | 2x24 | 10 | 18 | 32 | 46 | 2x32 | 2x46 | 40 | 64 |
| Page | 21 | | | | | 20 | | | | | | 20 | | | | | 20 | | |

| HEAVYCON housing | Size | | | | | | | | | | | | | | | | | | | |
|------------------|------|---------|---|---|---|--|---|---|---|---|---|--|---|---|---|---|---|--|---|---|
| | D7 | from 30 | | | | | | | | | | | | | | | | | | |
| | D15 | . | . | | | | | | | | | | | | | | | | | |
| | D25 | | | . | | | | | | | | | | | | | | | | |
| | D50 | | | | . | | | | | | | | | | | | | | | |
| | B6 | | | | | | . | | | | | | . | | | | | | | |
| | B10 | | | | | | | . | | | | | | . | | | | | | |
| | B16 | | | | | | | | . | | | | | | . | | | | . | |
| | B24 | | | | | | | | | . | | | | | | . | | | | . |
| | B32 | | | | | | | | | | . | | | | | | . | | | |
| B48 | | | | | | | | | | | . | | | | | | . | | | |

















Contact inserts with a fixed number of positions




| | | | | | | | Housing size | B06 | B10 | B16 | B24 | B32 | B48 | | |
|-----|------------|--------------------------|------|--------------------------|--------|-----------|---------------------|-----------|-----------|-----------|-----------|---------------|---------------|---------------|----------------|
| | | | | | | | Number of positions | 6 | 10 | 16 | 24 | 2 x 16 | 2 x 24 | | |
| | B | Screw | UT | 0.5–2.5 mm ² | 16 A | 500 V | Socket | 1648128 | 1648186 | 1648241 | 1648306 | 1648241 | 1648306 | | |
| | | | | | | | Pin | 1648115 | 1648173 | 1648238 | 1648296 | 1648238 | 1648296 | | |
| | | Crimp CK 2,5 | CT | 0.5–4.0 mm ² | 16 A | 500 V | Socket | 1648160 | 1648225 | 1648283 | 1648348 | 1648283 | 1648348 | | |
| | | | | | | | Pin | 1648157 | 1648212 | 1648270 | 1648335 | 1648270 | 1648335 | | |
| | | Push-in | PT | 0.14–2.5 mm ² | 16 A | 500 V | Socket | 1407727 | 1407729 | 1407731 | 1407735 | 1407731 | 1407735 | | |
| | | | | | | | Pin | 1407728 | 1407730 | 1407732 | 1407736 | 1407732 | 1407736 | | |
| IDC | Q | 0.34–2.5 mm ² | 16 A | 400 V | Socket | 1605556 | 1605569 | 1605572 | 1605585 | 1605572 | 1605585 | | | | |
| | | | | | Pin | 1605611 | 1605624 | 1605637 | 1605640 | 1605637 | 1605640 | | | | |
| | | | | | | | | 10 | 18 | 32 | 46 | 2 x 32 | 2 x 46 | | |
| | BB | Crimp CK 2,5 | CT | 0.5–4.0 mm ² | 16 A | 500 V | Socket | 1584703 | 1584729 | 1584745 | 1584758 | 1584745 | 1584758 | | |
| | | | | | | | Pin | 1584774 | 1584716 | 1584732 | 1584761 | 1584732 | 1584761 | | |
| | | | | | | | | | | 40 | 64 | 2 x 40 | 2 x 64 | | |
| | BBB | Crimp CK 2,5 | CT | 0.5–4.0 mm ² | 16 A | 500 V | Socket | – | – | 1409930 | 1409914 | 1409930 | 1409914 | | |
| | | | | | | | Pin | – | – | 1409921 | 1409901 | 1409921 | 1409901 | | |
| | | | | | | | | | | 40 | 64 | 2 x 40 | 2 x 64 | | |
| | D | Crimp CK 1,6 | CT | 0.14–2.5 mm ² | 10 A | 250 V | Socket | – | – | 1584428 | 1584444 | 1584428 | 1584444 | | |
| | | | | | | | Pin | – | – | 1584415 | 1584431 | 1584415 | 1584431 | | |
| | | | | | | | | | | 24 | 42 | 72 | 108 | 2 x 72 | 2 x 108 |
| | DD | Crimp CK 1,6 | CT | 0.14–2.5 mm ² | 10 A | 250 V | Socket | 1584046 | 1584062 | 1584091 | 1584130 | 1584091 | 1584130 | | |
| | | | | | | | Pin | 1584033 | 1584059 | 1584075 | 1584114 | 1584075 | 1584114 | | |
| | | | | | | | | | | 3 | 6 | 10 | | | |
| | HV | Push-in | PT | 0.14–2.5 mm ² | 16 A | 830 V | Socket | – | 1407743 | 1407744 | 1407745 | – | – | | |
| | | | | | | | Pin | – | 1407739 | 1407740 | 1407741 | – | – | | |
| | HV | Crimp CK 2,5 | CT | 0.5–4.0 mm ² | 16 A | 830 V | Socket | – | 1405261 | 1405263 | 1405265 | – | – | | |
| | | | | | | | Pin | – | 1405260 | 1405262 | 1405264 | – | – | | |
| | | | | | | | | | | 6 | | 12 | | | |
| | HS | Screw | UT | 0.5–6.0 mm ² | 35 A | 400/690 V | Socket | – | – | 1406530 | – | 1406530 | – | | |
| | | | | | | | Pin | – | – | 1406531 | – | 1406531 | – | | |
| | | | | | | | | | | – | – | 1406534 | – | | |





| | | | | | | | Housing size | B06 | B10 | B16 | B24 | B32 | B48 | |
|--|--|--|--------|--------------------------|--------------------------|--------------------------|---------------------|-----------|-----------|------------|------------|---------------|---------------|---|
| | | | | | | | Number of positions | 6 | 10 | 16 | 24 | 2 x 16 | 2 x 24 | |
|  | B-A | Screw | UT | 0.5–2.5 mm ² | 16 A | 500 V | Socket, PE left | 1648018 | 1648030 | 1648042 | 1648054 | – | – | |
| | | | | | | | Socket, PE right | 1648066 | 1648078 | 1648090 | 1648102 | – | – | |
| | | | | | | | Pin, PE left | 1648024 | 1648036 | 1648048 | 1648060 | – | – | |
| | | | | | | | Pin, PE right | 1648072 | 1648084 | 1648096 | 1648108 | – | – | |
| |  | Push-in | DT | 0.5–2.5 mm ² | 16 A | 500 V | Socket, PE left | 1648377 | 1648416 | 1648458 | 1648490 | – | – | |
| | | | | | | | Socket, PE right | 1648351 | 1648393 | 1648432 | 1648474 | – | – | |
| | | | | | | | Pin, PE left | 1648380 | 1648429 | 1648461 | 1648500 | – | – | |
| | | | | | | | Pin, PE right | 1648364 | 1648403 | 1648445 | 1648487 | – | – | |
| | | | | | | | | | 40 | 64 | | | | |
|  | D-A | Screw | UT | 0.5–2.5 mm ² | 10 A | 250 V | Socket, PE left | – | – | 1584253 | 1584295 | – | – | |
| | | | | | | | Socket, PE right | – | – | 1584279 | 1584321 | – | – | |
| | | | | | | | Pin, PE left | – | – | 1584240 | 1584282 | – | – | |
| | | | | | | | Pin, PE right | – | – | 1584266 | 1584318 | – | – | |
| |  | Push-in | DT | 0.5–2.5 mm ² | 10 A | 250 V | Socket, PE left | – | – | 1580147 | 1774869 | – | – | |
| | | | | | | | Socket, PE right | – | – | 1580163 | 1774526 | – | – | |
| | | | | | | | Pin, PE left | – | – | 1580150 | 1774872 | – | – | |
| | | | | | | | Pin, PE right | – | – | 1580176 | 1774513 | – | – | |
| | | | | | | | | | 40 | 64 | | | | |
| | | | | | | | Housing size | D7 | D7 | D15 | D25 | D50 | | |
| | | | | | | | No. of positions | 3 | 4 | 10 | 16 | 2 x 16 | | |
|  | A | Screw | UT | 0.5–2.5 mm ² | 16 A | 250 V | Socket | 1585223 | 1585249 | 1585304 | 1585320 | 1585320 | | |
| | | | | | | | – | – | – | – | 1585346 | | | |
| | | | | | | | Pin | 1585210 | 1585236 | 1585294 | 1585317 | 1585317 | | |
| | | | | | | | – | – | – | – | 1585333 | | | |
| |  | Crimp | CK 2,5 | CT | 0.5–4.0 mm ² | 16 A | 250 V | Socket | – | – | 1676983 | 1677018 | 1677018 | |
| | | | | | | | | – | – | – | – | 1677050 | | |
| | | | | | | | | | 40 | 64 | | | | |
|  | D | Crimp | CK 1,6 | CT | 0.14–2.5 mm ² | 10 A | 250 V | Socket | 1584347 | 1584363 * | 1584389 | 1584402 | 1584402 | |
| | | | | | | | | – | – | – | – | 1584402 | | |
| | | | | | | | | Pin | 1584334 | 1584350 * | 1584376 | 1584392 | 1584392 | |
| | | | | | | | | – | – | – | – | 1584392 | | |
| | | | | | | | | | | 40 | 64 | | | |
| | | | | | | | | | 7 | 8 | 15 | 25 | 2 x 25 | |
|  | Q | Axial screw | A | 4.0–10.0 mm ² | 40 A | 400 V | Socket | 1586264 | – | – | – | – | | |
| | | | | | | | – | – | – | – | – | | | |
| | | | | | | | Pin | 1586277 | – | – | – | – | | |
| | | | | | | | – | – | – | – | – | | | |
| |  | Crimp | CK 2,5 | CT | 0.14–2.5 mm ² | 16 A | 230/400 V | Socket | 1406537 | – | – | – | – | |
| | | | | | | | | – | – | – | – | – | | |
| | | | | | | | | Pin | 1406538 | – | – | – | – | |
| | | | | | | | | – | – | – | – | – | | |
| | |  | Crimp | CK 2,5 | CT | 0.14–2.5 mm ² | 10 A | 400 V | Socket | 1408588 | – | – | – | – |
| | | | | | | | | | – | – | – | – | – | |
| | | | Pin | 1408575 | – | – | – | – | | | | | | |
| | | | | – | – | – | – | – | | | | | | |
| | | | | | | | | 12 | | | | | | |
|  | Crimp | CK 2,5 | CT | 0.14–2.5 mm ² | 10 A | 400 V | Socket | 1409419 | – | – | – | – | | |
| | | | | | | | – | – | – | – | – | | | |
| | | | | | | | Pin | 1409422 | – | – | – | – | | |
| | | | | | | | – | – | – | – | – | | | |



* 250 V only in conjunction with plastic housing



Modular contact inserts, B series

| | | | | |
|----------------------------|---|---|---|---|
| Number of positions | 1 | 1 | 2 | 2 |
| Connection | Axial screw | Axial screw | Axial screw | Axial screw |
| |  |  |  |  |
| Current | 200 A | 200 A | 100 A | 70 A |
| Voltage | 1000 V | 1000 V | 1000 V | 1000 V |
| Cable diameter | 40–70 mm ² | 25–40 mm ² | 16–35 mm ² | 14–22 mm ² |
| Module slots | 2 | 2 | 2 | 1 |
| Socket | 1636897 | 1637171 | 1605001 | 1585731 |
| Pin | 1636884 | 1637168 | 1605000 | 1585728 |
| Number of positions | 2 | 2 | 2 | 3 |
| Connection | Axial screw | Axial screw | Crimp (CK 4.0) | Crimp (CK 4.0) |
| |  |  |  |  |
| Current | 70 A | 40 A | 40 A | 40 A |
| Voltage | 1000 V | 1000 V | 1000 V | 500 V |
| Cable diameter | 6–16 mm ² | 2.5–8 mm ² | 1.5–10 mm ² | 1.5–10 mm ² |
| Module slots | 1 | 1 | 1 | 1 |
| Socket | 1585715 | 1679359 | 1587519 | 1645972 |
| Pin | 1585702 | 1679346 | 1587506 | 1645969 |
| Number of positions | 3/4 | 4 | 2 | 6 |
| Connection | Crimp (CK 4.0/CK 1.6) | Crimp (CK 4.0) | Crimp (CK 2.5) | Crimp (CK 2.5) |
| |  |  |  |  |
| Current | 40/10 A | 40 A | 16 A | 16 A |
| Voltage | 830 V | 830 V | 2900 V/5000 V | 830 V |
| Cable diameter | 1.5–6 mm ² / 0.14–2.5 mm ² | 1.5–6 mm ² | 0.5–4 mm ² | 0.5–4 mm ² |
| Module slots | 1 | 1 | 2 | 1 |
| Socket | 1585786 | 1585605 | 1604999 | 1636460 |
| Pin | 1585799 | 1585618 | 1604998 | 1636457 |
| Number of positions | 6 | 20 | 5 | 8 |
| Connection | Crimp (CK 2.5) | Crimp (CK 2.5) | Spring-cage | Crimp (CK 2.5) |
| |  |  |  |  |
| Current | 16 A | 16 A | 16 A | 16 A |
| Voltage | 500 V | 500 V | 400 V | 400 V |
| Cable diameter | 0.5–4 mm ² | 0.5–4 mm ² | 0.14–2.5 mm ² | 0.5–4 mm ² |
| Module slots | 1 | 2 | 1 | 1 |
| Socket | 1663462 | 1636936 | 1647721 | 1605003 |
| Pin | 1663459 | 1636923 | 1647718 | 1605002 |

| | | | |
|----------------------------|---|---|--|
| Number of positions | 12 | 17 | 25 |
| Connection | Crimp (CK 1.6) | Crimp (CK 1.6) | Crimp (VS-CD 1.0) |
| |  |  |  |
| Current | 10 A | 10 A | 5 A |
| Voltage | 250 V | 160 V | 50 V |
| Cable diameter | 0.14–2.5 mm ² | 0.14–2.5 mm ² | 0.08–0.5 mm ² |
| Module slots | 1 | 1 | 1 |
| Socket | 1663323 | 1636486 | 1605005 |
| Pin | 1663310 | 1636473 | 1605004 |

| | | | | |
|----------------------------|---|---|--|---|
| Number of positions | 2 | 8 | 9 | 2 |
| Connection | EMC (CK 1.6) | Ethernet CAT5 (VS-CD 1.0) | Crimp (VS-CD 1.0) | Profibus RS-485 |
| |  |  |  |  |
| Current | 10 A | 5 A | 1 A | 5 A |
| Voltage | 50 V | 50 V | 50 V | 50 V |
| Cable diameter | 0.14–2.5 mm ² | 0.08–0.5 mm ² | 0.08–0.5 mm ² | 0.08–0.5 mm ² |
| Module slots | 2 | 1 | 1 | 1 |
| Socket | 1678570 1636091 | 1587726 1587700 | 1647543 | 1636444 |
| Pin | 1678567 1636088 | 1587713 1587690 | 1647530 | – |

| | | |
|----------------------------|---|---|
| Number of positions | 4 | 4 |
| Connection | Coax | Coax |
| |  |  |
| Current | 1.5 A | 1.5 A |
| Voltage | 50 V | 50 V |
| Cable diameter | 50 ohms | 75 ohms |
| Module slots | 1 | 1 |
| Socket | 1676789 1676815 | 1676789 1686245 |
| Pin | 1676792 1676802 | 1676792 1686258 |

| | | |
|-------------------------------|---|---|
| Number of positions | 2 | 3 |
| Connection | Pneumatic | Pneumatic |
| |  |  |
| Internal hose diameter | 6 mm | 1.6 mm; 3 mm; 4 mm |
| Module slots | 1 | 1 |
| Socket | 1674998 | 1663475 |
| Pin | | |

Hinged retaining frames and accessories for modular contact inserts, B series

Hinged retaining frames

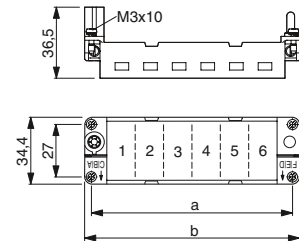


For sleeve housing

For panel and box mounting bases and coupling housing



| Module slots | Housing size | Dimensions | | Type | Marking: A, B, C, etc. | |
|--------------|--------------|------------|--------|------------------------|------------------------|------------------------|
| | | a (mm) | b (mm) | | Marking: A, B, C, etc. | Marking: a, b, c, etc. |
| 2 | B06 | 44.0 | 51.0 | HC-M-MHR-...2-N | 1679249 | 1679281 |
| 3 | B10 | 57.0 | 64.0 | HC-M-MHR-...3-N | 1679252 | 1679294 |
| 4 | B16 | 77.5 | 84.5 | HC-M-MHR-...4-N | 1679265 | 1679304 |
| 6 | B24 | 104.0 | 111.0 | HC-M-MHR-...6-N | 1679278 | 1679317 |



Plastic housing for a contact insert module

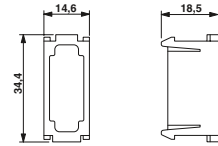
| | With PE marking | Without PE marking |
|---------------------|--------------------|--------------------|
| Sleeve housing | 1408520 | 1408546 |
| Panel mounting base | 1408533 | 1408559 |
| Coding pin | 1408562 | |

Dummy module and module retainer

Dummy module for filling free module slots in the retaining frame



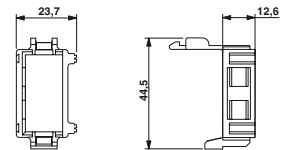
1676828



Module retainer without strain relief



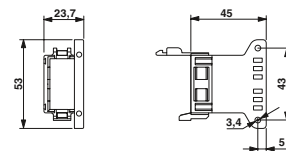
1676844



Module retainer with strain relief



1676831



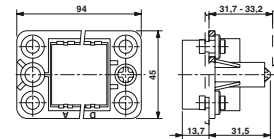
Docking frames

Floating

for 4 module slots



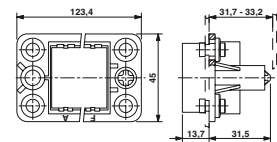
1587454



for 6 module slots



1587470

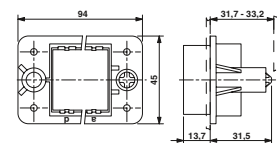


Fixed assembly

for 4 module slots



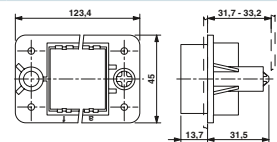
1587467



for 6 module slots



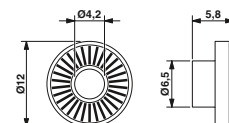
1587483



Special washer for mounting the floating docking frame with a standard M4 screw



1587496





Crimp contacts and tools


| Series | For cross section [mm ²] | AWG | Silver | | | Gold | |
|---|--------------------------------------|-------|---------|---------|-------------|---------|---------|
| | | | Socket | Pin | Pin lagging | Socket | Pin |
|  CK 1,6-ED | 0.14–0.37 | 26–22 | 1663394 | 1663336 | | 1674969 | 1674901 |
| | 0.5 | 20 | 1663404 | 1663349 | | 1674480 | 1672453 |
| | 0.75 | 18 | 1663417 | 1663352 | | 1672440 | 1674914 |
| | 0.75–1.0 | 18 | 1663420 | 1663365 | | 1674943 | 1674888 |
| | 1.5 | 16 | 1663433 | 1663378 | | 1674930 | 1674875 |
| | 2.5 | 14 | 1663446 | 1663381 | | 1674985 | 1674927 |
|  CK 2,5-ED | 0.14–0.37 | 26–22 | 1585634 | 1585650 | | 1585647 | 1585663 |
| | 0.5 | 20 | 1663640 | 1663572 | | 1674859 | 1674804 |
| | 0.75 | 18 | 1663653 | 1663585 | | | |
| | 0.75–1.0 | 18 | 1663666 | 1663598 | 1663857 | 1674833 | 1674781 |
| | 1.5 | 16 | 1663679 | 1663608 | 1663860 | 1674820 | 1674778 |
| | 2.5 | 14 | 1663682 | 1663611 | 1663873 | 1674862 | 1674817 |
| | 4 | 12 | 1663705 | 1663637 | | 1674846 | 1674794 |
|  CK 4,0-ED | 1.5 | 16 | 1663271 | 1663239 | | | |
| | 2.5 | 14 | 1663284 | 1663242 | | | |
| | 4 | 12 | 1663297 | 1663255 | | | |
| | 6 | 10 | 1663307 | 1663268 | | | |
| | 10 | 8 | 1586198 | 1586183 | | | |
|  VS-CD 1,0 | 0.08–0.2 | 28–24 | | | | 1688997 | 1688971 |
| | 0.2–0.5 | 24–20 | | | | 1688984 | 1688968 |
|  FO POF | for 1 mm Ø | | | | | | |
|  Pneumatic | for 1.6 mm Ø | | | | | | |
| | for 3.0 mm Ø | | | | | | |
| | for 4.0 mm Ø | | | | | | |
| | for 6.0 mm Ø | | | | | | |


| Thermo contacts | | | | Fiber optics | | Pneumatic | | | Professional crimping tool with positioning tool | Basic crimping tool | | Removal tool |
|-------------------|---------|-----------|---------|--------------|---------|---------------|---------|------------|--|--|---------|--------------|
| Constantan (CuNi) | | Iron (Fe) | | Socket | Pin | Without valve | | With valve | | Crimping tool without positioning tool | Dies | |
| Socket | Pin | Socket | Pin | | | Socket | Pin | Socket | Pin | | | Socket |
| | | | | | | | | | 1212113 | 1212072 | 1212075 | 1884869 |
| 1585757 | 1585744 | 1585773 | 1585760 | | | | | | 1212113 | 1212072 | 1212075 | 1662722 |
| | | | | | | | | | 1212113 | 1212072 | 1212075 | 1662735 |
| | | | | | | | | 1212114 | | | 1212076 | |
| | | | | | | | | | 1205448 | | | 1658794 |
| | | | | 1885004 | 1884995 | | | | 1584839 | | | 1884869 |
| | | | | | | 1663514 | 1663488 | 1663543 | | | | |
| | | | | | | 1663527 | 1663491 | 1663556 | | | | |
| | | | | | | 1663530 | 1663501 | 1663569 | | | | |
| | | | | | | 1676763 | 1676750 | 1676776 | | | | |


STANDARD housings, B series, with double locking latch



 Web code: #0517


| | Height | Thread | Metric thread | | | Thread | Pg thread | | |
|---|--------|---------|---------------|---------|---------|----------|-----------|---------|---------|
| | | | B10 | B16 | B24 | | B10 | B16 | B24 |
| Sleeve housing for double locking latch | | | | | | | | | |
|  | low | 1 x M20 | 1412620 | | | 1 x Pg16 | 1412622 | 1412723 | 1412780 |
| | | 1 x M25 | 1412621 | 1412721 | 1412778 | 1 x Pg21 | 1412623 | 1412724 | 1412781 |
| | | 1 x M32 | | 1412722 | 1412779 | 1 x Pg29 | | | 1412782 |
| | high | 1 x M25 | 1412596 | | | 1 x Pg21 | 1412598 | 1412669 | 1412755 |
| | | 1 x M32 | 1412597 | 1412653 | 1412754 | 1 x Pg29 | 1412599 | 1412678 | 1412756 |
| | | 1 x M40 | | 1412654 | 1412099 | | | | |
|  | low | 1 x M20 | 1412616 | | | 1 x Pg16 | 1412618 | 1412719 | 1412775 |
| | | 1 x M25 | 1412617 | 1412717 | 1412773 | 1 x Pg21 | 1412619 | 1412720 | 1412776 |
| | | 1 x M32 | | 1412718 | 1412774 | 1 x Pg29 | | | 1412777 |
| | high | 1 x M25 | 1412592 | | | 1 x Pg21 | 1412594 | 1412651 | 1412752 |
| | | 1 x M32 | 1412593 | 1412649 | 1412750 | 1 x Pg29 | 1412595 | 1412652 | 1412753 |
| | | 1 x M40 | | 1412650 | 1412751 | | | | |


| Panel mounting base with double locking latch | | | | | | | | | |
|---|--|---------------|---------|---------|---------|---------------|---------|---------|---------|
|  | | Without cover | 1411322 | 1411327 | 1411331 | Without cover | 1411322 | 1411327 | 1411331 |



| Box mounting base with double locking latch | | | | | | | | | |
|---|-----|-------------|---------|---------|---------|--------------|---------|---------|---------|
|  | low | 1 x/2 x M20 | 1412835 | | | 1 x/2 x Pg16 | 1412837 | | |
| | | 1 x/2 x M25 | 1412836 | 1412855 | 1412873 | 1 x/2 x Pg21 | 1412838 | 1412857 | 1412875 |
| | | 1 x/2 x M32 | | 1412856 | 1412874 | 1 x/2 x Pg29 | | 1412860 | 1412876 |

| Coupling housing | | | | | | | | | |
|---|------|---------|---------|---------|---------|----------|---------|---------|---------|
|  | high | 1 x M20 | 1412578 | | | 1 x Pg16 | 1412581 | | |
| | | 1 x M25 | 1412579 | 1412641 | | 1 x Pg21 | 1412582 | 1412643 | 1412744 |
| | | 1 x M32 | 1412580 | 1412642 | 1412742 | 1 x Pg29 | 1412583 | 1412644 | 1412745 |
| | | 1 x M40 | | | 1412743 | | | | |

| Sleeve housing with double locking latch | | | | | | | | | |
|---|------|---------|---------|---------|---------|----------|---------|---------|---------|
|  | low | 1 x M20 | 1412637 | | | 1 x Pg16 | 1412639 | 1412740 | 1412801 |
| | | 1 x M25 | 1412638 | 1412738 | 1412799 | 1 x Pg21 | 1412640 | 1412741 | 1412802 |
| | | 1 x M32 | | 1412739 | 1412800 | 1 x Pg29 | | | 1412803 |
| | high | 1 x M25 | 1412612 | | | 1 x Pg21 | 1412614 | 1412715 | 1412771 |
| | | 1 x M32 | 1412613 | 1412708 | 1412769 | 1 x Pg29 | 1412615 | 1412716 | 1412772 |
| | | 1 x M40 | | 1412709 | 1412770 | | | | |
|  | low | 1 x M20 | 1412633 | | | 1 x Pg16 | 1412635 | 1412735 | 1412796 |
| | | 1 x M25 | 1412634 | 1412733 | 1412793 | 1 x Pg21 | 1412636 | 1412737 | 1412797 |
| | | 1 x M32 | | 1412734 | 1412795 | | | | |
| | high | 1 x M25 | 1412608 | | | 1 x Pg21 | 1412610 | 1412705 | 1412767 |
| | | 1 x M32 | 1412609 | 1412703 | 1412764 | 1 x Pg29 | 1412611 | 1412706 | 1412768 |
| | | 1 x M40 | | 1412704 | 1412766 | | | | |

| Panel mounting base for double locking latch | | | | | | | | | |
|---|--|------------|---------|---------|---------|--|---------|---------|---------|
|  | | with cover | 1411323 | 1411328 | 1411332 | | 1411323 | 1411328 | 1411332 |

| Box mounting base for double locking latch | | | | | | | | | |
|---|--|-----------|---------|---------|---------|------------|---------|---------|---------|
|  | | 1/2 x M20 | 1412830 | | | 1/2 x Pg16 | 1412832 | 1412852 | |
| | | 1/2 x M25 | 1412831 | 1412849 | 1412869 | 1/2 x Pg21 | | 1412853 | 1412871 |
| | | 1/2 x M32 | | 1412850 | 1412870 | | | | |

| | Height | Thread | Metric thread | | | | Thread | Pg thread | | | |
|---|--------|---------------|---------------|---------|---------|---------|---------------|-----------|---------|---------|---------|
| | | | B6 | B10 | B16 | B24 | | B6 | B10 | B16 | B24 |
| Sleeve housing for single locking latch | | | | | | | | | | | |
|  | low | | | | | | 1x Pg13.5 | 1412576 | | | |
| | | 1 x M20 | 1412574 | 1412629 | | | 1 x Pg16 | 1412577 | 1412631 | 1412731 | 1412790 |
| | | 1 x M25 | 1412575 | 1412630 | 1412729 | 1412788 | 1 x Pg21 | | 1412632 | 1412732 | 1412791 |
| | | 1 x M32 | | | 1412730 | 1412789 | 1 x Pg29 | | | | 1412792 |
| | high | 1 x M25 | 1412566 | 1412604 | | | 1 x Pg21 | 1412568 | 1412606 | 1412701 | 1412762 |
| | | 1 x M32 | 1412567 | 1412605 | 1412689 | 1412761 | 1 x Pg29 | 1412569 | 1412607 | 1412702 | 1412763 |
| | | 1 x M40 | | | 1412700 | 1412098 | | | | | |
|  | low | | | | | | 1 x Pg13.5 | 1412572 | | | |
| | | 1 x M20 | 1412570 | 1412624 | | | 1 x Pg16 | 1412573 | 1412627 | 1412727 | 1412785 |
| | | 1 x M25 | 1412571 | 1412625 | 1412725 | 1412783 | 1 x Pg21 | | 1412628 | 1412728 | 1412786 |
| | high | 1 x M32 | | | 1412726 | 1412784 | 1 x Pg29 | | | | 1412787 |
| | | 1 x M25 | 1412562 | 1412600 | | | 1 x Pg21 | 1412564 | 1412602 | 1412683 | 1412759 |
| | | 1 x M32 | 1412563 | 1412601 | 1412679 | 1412757 | 1 x Pg29 | 1412565 | 1412603 | 1412684 | 1412760 |
| | | 1 x M40 | | | 1412682 | 1412758 | | | | | |
| Panel mounting base | | | | | | | | | | | |
|  | | Without cover | 1411318 | 1411320 | 1411324 | 1411329 | Without cover | 1411318 | 1411320 | 1411324 | 1411329 |
| | | With cover | 1411319 | 1411321 | 1411325 | 1411330 | With cover | 1411319 | 1411321 | 1411325 | 1411330 |
| Box mounting base | | | | | | | | | | | |
|  | | 1 x/2 x M20 | 1412821 | 1412839 | | | 1 x/2 x Pg16 | 1412823 | 1412842 | | |
| | | 1 x/2 x M25 | 1412822 | 1412840 | 1412861 | 1412877 | 1 x/2 x Pg21 | 1412824 | 1412843 | 1412863 | 1412879 |
| | | 1 x/2 x M32 | | | 1412862 | 1412878 | 1 x/2 x Pg29 | | | 1412864 | 1412880 |
| Coupling housing | | | | | | | | | | | |
|  | high | 1 x M20 | 1412555 | 1412584 | | | 1 x Pg13.5 | 1412558 | | | |
| | | 1 x M25 | 1412556 | 1412585 | 1412645 | | 1 x Pg16 | | 1412587 | | |
| | | 1 x M32 | 1412557 | 1412586 | 1412646 | 1412746 | 1 x Pg21 | 1412559 | 1412588 | 1412647 | 1412748 |
| | | 1 x M40 | | | | 1412747 | 1 x Pg29 | 1412560 | 1412589 | 1412648 | 1412749 |

Technical data

| | |
|--|------------------------------------|
| Housing material | Cast aluminum, corrosion resistant |
| Surface material | Uncoated |
| Lock material | Polyamide |
| Sealing material | NBR, conductive |
| Ambient temperature (operation) | -40°C ... +125°C |
| Degree of protection (when plugged in) | IP66/IP67/69K NEMA 4X/6P |

EVO housings with double locking latch

| | | Metric thread | | | | | | | |
|---|---------|---------------|---------|---------|-------|---------|---------|---------|--|
| | | Plastic | | | Metal | | | | |
| | | B10 | B16 | B24 | B06 | B10 | B16 | B24 | |
| Sleeve housing for double locking latch | | | | | | | | | |
|  | low | 1407628 | | | | 1411455 | | | |
| | high | 1407629 | 1407643 | 1407657 | | 1411451 | 1411460 | 1411472 | |
| Panel mounting base with double locking latch | | | | | | | | | |
|  | | 1407634 | 1407648 | 1407661 | | 1411322 | 1411327 | 1411331 | |
| Box mounting base with double locking latch | | | | | | | | | |
|  | 1 x M20 | | | | | 1412835 | | | |
| | 1 x M25 | | | | | 1412836 | 1412855 | 1412873 | |
| | 1 x M32 | 1407638 | | | | | 1412856 | 1412874 | |
| | 1 x M40 | | 1407652 | 1407665 | | | | | |
| Coupling housing with double locking latch | | | | | | | | | |
|  | | 1407641 | 1407655 | 1407668 | | 1411458 | 1411463 | 1411475 | |
| Sleeve housing with double locking latch | | | | | | | | | |
|  | low | 1407630 | | | | 1411457 | | | |
| | high | 1407631 | 1407644 | 1407658 | | 1411454 | 1411462 | 1411474 | |
| Panel mounting base for double locking latch with cover | | | | | | | | | |
|  | | 1407635 | 1407649 | 1407662 | | 1411323 | 1411328 | 1411332 | |
| Box mounting base for double locking latch with cover | | | | | | | | | |
|  | 1 x M20 | | | | | 1412830 | | | |
| | 1 x M25 | | | | | 1412831 | 1412849 | 1412869 | |
| | 1 x M32 | 1407639 | | | | | 1412850 | 1412870 | |
| | 1 x M40 | | 1407653 | 1407666 | | | | | |
| Sleeve housing with two cable outlets | | | | | | | | | |
|  | high | 1411495 | 1411496 | 1411497 | | | | | |

| Height/ thread | Pg thread | | |
|-------------------|-----------|---------|---------|
| | Metal | | |
| | B10 | B16 | B24 |
| low | 1411455 | | |
| high | 1411451 | 1411460 | 1411472 |

| | | | |
|--|---------|---------|---------|
| | 1411322 | 1411327 | 1411331 |
|--|---------|---------|---------|

| | | | |
|----------|---------|---------|---------|
| 1 x Pg16 | 1412837 | | |
| 1 x Pg21 | 1412838 | 1412857 | 1412875 |
| 1 x Pg29 | | 1412860 | 1412876 |


| | | | |
|--|---------|---------|---------|
| | 1411458 | 1411463 | 1411475 |
|--|---------|---------|---------|

| | | | |
|--|---------|---------|---------|
| | 1411457 | | |
| | 1411454 | 1411462 | 1411474 |


| | | | |
|--|---------|---------|---------|
| | 1411323 | 1411328 | 1411332 |
|--|---------|---------|---------|

| | | | |
|----------|---------|---------|---------|
| 1 x Pg16 | 1412832 | 1412852 | |
| 1 x Pg21 | 1412833 | 1412853 | 1412871 |
| 1 x Pg29 | | 1412854 | 1412872 |


Cable gland with bayonet locking

| Cable Ø | Thread | Plastic | | EMC | Metal | |
|---|-----------------|---------|---------|---------|---------|---------|
| | | D | B | B | B | |
|  | 9 mm ... 12 mm | 1 x M20 | 1411350 | 1407669 | 1411439 | 1411442 |
| | 11 mm ... 16 mm | 1 x M25 | 1411351 | 1407670 | 1411446 | 1411443 |
| | 14 mm ... 21 mm | 1 x M32 | | 1407671 | 1411440 | 1411444 |
| | 19 mm ... 27 mm | 1 x M40 | | 1407672 | 1411441 | 1411445 |

Thread adapter

| | | | | | | |
|---|-----------|-------------|---------|---------|---------|---------|
|  | | 1 x M20 | | 1414243 | | 1414256 |
| | | 1 x M25 | 1411352 | 1414244 | | 1414257 |
| | | 1 x M32 | | 1414245 | | 1414258 |
| | | 1 x M40 | | 1414246 | | 1414259 |
| | | 1 x Pg13.5 | | 1414247 | | 1414260 |
| | | 1 x Pg16 | 1411353 | 1414248 | | 1414261 |
| | | 1 x Pg21 | | 1414249 | | 1414262 |
| | | 1 x Pg29 | | 1414250 | | 1414263 |
| | | 1 x NPT 1/2 | | 1414251 | | 1414264 |
| | | 1 x NPT 3/4 | 1411354 | 1414252 | | 1414265 |
| | 1 x NPT 1 | | 1414253 | | 1414266 | |

Standard cable glands

| | | | | | | |
|---|-----------------|-------------|---------|---------|---------|---------|
|  | 9 mm ... 12 mm | 1 x M20 | 1411133 | 1411133 | 1411189 | 1411163 |
| | 11 mm ... 16 mm | 1 x M25 | 1411134 | 1411134 | 1411190 | 1411165 |
| | 15 mm ... 21 mm | 1 x M32 | | 1411136 | 1411191 | 1411166 |
| | 19 mm ... 27 mm | 1 x M40 | | 1411137 | 1411192 | 1411167 |
| | 6 mm ... 12 mm | 1 x Pg13.5 | | | 1411198 | 1411173 |
| | 10 mm ... 14 mm | 1 x Pg16 | | | 1411199 | 1411174 |
| | 13 mm ... 18 mm | 1 x Pg21 | | | 1411200 | 1411175 |
| | 18 mm ... 25 mm | 1 x Pg29 | | | 1411201 | 1411176 |
| | 10 mm ... 14 mm | 1 x NPT 1/2 | | 1411157 | | 1411183 |
| | 13 mm ... 18 mm | 1 x NPT 3/4 | | 1411158 | | 1411184 |
| 18 mm ... 25 mm | 1 x NPT 1 | | 1411159 | | 1411185 | |

EVO housings with single locking latch

| | | Metric thread | | | | | | | | | |
|---|---------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Plastic | | | | | | Metal | | | |
| | | D15 | D25 | B06 | B10 | B16 | B24 | B06 | B10 | B16 | B24 |
| Sleeve housing for single locking latch | | | | | | | | | | | |
|  | low | | | 1407619 | 1407626 | | | 1411448 | 1411456 | | |
| | high | 1411340 | 1411347 | 1407620 | 1407627 | 1407642 | 1407656 | 1411447 | 1411453 | 1411461 | 1411473 |
| Panel mounting base with single locking latch, without cover | | | | | | | | | | | |
|  | | 1411336 | 1411344 | 1407621 | 1407632 | 1407646 | 1407659 | 1411318 | 1411320 | 1411324 | 1411329 |
| Panel mounting base with single locking latch, with cover | | | | | | | | | | | |
|  | | 1411337 | 1411345 | 1407622 | 1407633 | 1407647 | 1407660 | 1411319 | 1411321 | 1411325 | 1411330 |
| Box mounting base with single locking latch, without cover | | | | | | | | | | | |
|  | 1 x M20 | | | | | | | 1412821 | 1412839 | | |
| | 1 x M25 | 1411341 | 1411348 | | | | | 1412822 | 1412840 | 1412861 | 1412877 |
| | 1 x M32 | | | 1407623 | 1407636 | | | | | 1412862 | 1412878 |
| | 1 x M40 | | | | | 1407650 | 1407663 | | | | |
| Box mounting base with single locking latch, with cover | | | | | | | | | | | |
|  | 1 x M20 | | | | | | | 1412825 | 1412844 | | |
| | 1 x M25 | 1411343 | 1411349 | | | | | 1412826 | 1412845 | 1412865 | 1412881 |
| | 1 x M32 | | | 1407624 | 1407637 | | | | | 1412866 | 1412882 |
| | 1 x M40 | | | | | 1407651 | 1407664 | | | | |
| Coupling housing with single locking latch | | | | | | | | | | | |
|  | | 1411338 | 1411346 | 1407625 | 1407640 | 1407654 | 1407667 | 1411450 | 1411459 | 1411464 | 1411476 |

| Height/ thread | Pg thread | | | |
|-------------------|-----------|---------|---------|---------|
| | Metal | | | |
| | B06 | B10 | B16 | B24 |
| low | 1411448 | 1411456 | | |
| high | 1411447 | 1411453 | 1411461 | 1411473 |

| | | | | |
|--|---------|---------|---------|---------|
| | 1411318 | 1411320 | 1411324 | 1411329 |
| | 1411319 | 1411321 | 1411325 | 1411330 |

| | | | | |
|----------|---------|---------|---------|---------|
| 1 x Pg16 | 1412823 | 1412842 | | |
| 1 x Pg21 | | | 1412863 | 1412879 |
| 1 x Pg29 | | | | 1412880 |

| | | | | |
|----------|---------|---------|---------|---------|
| 1 x Pg16 | 1412827 | 1412846 | | |
| 1 x Pg21 | 1412828 | 1412847 | 1412867 | 1412883 |
| 1 x Pg29 | | | 1412868 | 1412884 |

| | | | | |
|--|---------|---------|---------|---------|
| | 1411450 | 1411459 | 1411464 | 1411476 |
|--|---------|---------|---------|---------|

Technical data, plastic

| | |
|--|--|
| Housing material | Polyamide |
| Surface material | – |
| Lock material | Polyamide |
| Sealing material | NBR |
| Ambient temperature (operation) | Cable gland: -40°C ... +100°C Housing: -40°C ... +125°C |
| Degree of protection (when plugged in) | IP66 NEMA 4/4X/12 |

Technical data, metal



| | |
|--|------------------------------------|
| Housing material | Cast aluminum, corrosion resistant |
| Surface material | Uncoated |
| Lock material | Polyamide |
| Sealing material | NBR, conductive |
| Ambient temperature (operation) | -40°C ... +125°C |
| Degree of protection (when plugged in) | IP66/67/69K NEMA 4X/6P |



ADVANCE housing, B series, with screw locking



ADVANCE connectors are characterized by the fact that the supporting base element is not required when using an ADVANCE housing with panel mounting flange.



Additional savings potential is offered by the low design of the metal housings and molded cable glands of the plastic design.



The ADVANCE housing with screw locking is suitable for the harshest requirements. Sensitive interfaces are reliably protected, even against EMC influences.

| | Thread | B6 | B10 | B16 | B24 |
|---|---------|---------|---------|---------|---------|
| Plastic housing (PL) | | | | | |
|  | 1 x M20 | 1404222 | | | |
| | 1 x M25 | 1404225 | 1404227 | | |
| | 1 x M32 | | 1404229 | 1404231 | 1404235 |
| | 1 x M40 | | | 1404233 | 1404238 |
|  | 1 x M20 | 1404224 | | | |
| | 1 x M25 | 1404226 | 1404228 | | |
| | 1 x M32 | | 1404230 | 1404232 | 1404237 |
| | 1 x M40 | | | 1404234 | 1404239 |

| Metal housing (AL) | | | | | | |
|---|------|---------|---------|---------|---------|---------|
|  | low | 1 x M20 | 1413362 | 1413388 | | |
| | | 1 x M25 | 1413364 | 1413390 | 1414975 | 1414982 |
| | | 1 x M32 | | | | |
| | | 1 x M40 | | | | |
| | high | 1 x M20 | | | | |
| | | 1 x M25 | 1413374 | 1413400 | 1414977 | 1414980 |
| | | 1 x M32 | 1413376 | 1413402 | 1413416 | 1413430 |
| | | 1 x M40 | | | 1413418 | 1413432 |
|  | low | 1 x M20 | 1413363 | 1413389 | | |
| | | 1 x M25 | 1413365 | 1413391 | 1414976 | 1414983 |
| | | 1 x M32 | | | | |
| | | 1 x M40 | | | | |
| | high | 1 x M20 | | | | |
| | | 1 x M25 | 1413375 | 1413401 | 1414978 | 1414981 |
| | | 1 x M32 | 1413377 | 1413403 | 1413417 | 1413431 |
| | | 1 x M40 | | | 1413419 | 1413433 |

| | Thread | B6 | B10 | B16 | B24 |
|---|---------|---------|---------|---------|---------|
| ADVANCE metal housing for increased environmental requirements (EUA) | | | | | |
|  | 1 x M20 | 1604049 | | | |
| | 1 x M25 | 1604104 | 1690037 | | |
| | 1 x M32 | | 1690118 | 1690192 | 1690354 |
| | 1 x M40 | | | 1690273 | 1690435 |
|  | 1 x M20 | 1604078 | | | |
| | 1 x M25 | 1604133 | 1690079 | | |
| | 1 x M32 | | 1690150 | 1690231 | 1690396 |
| | 1 x M40 | | | 1690312 | 1690477 |

| Panel mounting flanges for ADVANCE housing | | |
|--|---|---------|
|  | For screw locking, 2 connectors necessary for every connector | 1686533 |
|  | For screw locking, set (2 flanges, 4 self-tapping M4 Torx20 screws) | 1604638 |

| Box mounting bases and coupling housings | | | | | |
|--|---------|---------|---------|---------|---------|
|  | 2 x M20 | 1408630 | 1408737 | | |
| | 2 x M25 | 1408656 | 1408753 | 1408834 | 1408931 |
| | 2 x M32 | | | 1408850 | 1408957 |
| | 2 x M40 | | | | 1408973 |
|  | 1 x M20 | 1408685 | 1408782 | | |
| | 1 x M25 | 1408698 | 1408795 | 1408889 | 1408986 |
| | 1 x M32 | | | 1408892 | 1408999 |
| | 1 x M40 | | | | 1409008 |

| | B6 | B10 | B16 | B24 |
|---|---|---------|---------|---------|
| Plastic protective cover | | | | |
|  | HEAVYCON ADVANCE IP66 protective cover for panel mounting side, with screw locking, with retaining cord | | | |
| | 1411494 | 1411504 | 1411517 | 1411520 |
| | HEAVYCON ADVANCE IP50 protective cover for panel mounting side, with clip locking, with retaining cord | | | |
| | 1690736 | 1690749 | 1690752 | 1690765 |

The box mounting bases, coupling housings, and panel mounting flanges can be combined with all ADVANCE sleeve housings.

| | PL | AL | EUA |
|--|---------------------------------------|---|---|
| Technical data | | | |
| Housing material | Polyamide | Cast aluminum, corrosion resistant | Cast aluminum, corrosion resistant |
| Surface material | – | – | Powder-coated, black |
| Lock material | Stainless steel | Stainless steel | Stainless steel |
| Sealing material | NBR | NBR, conductive | Viton |
| Ambient temperature (operation) | -40°C ... +100°C | -40°C ... +125°C | -40°C ... +200°C |
| Degree of protection (when plugged in) | IP66/68 (0.2 bar, 24 h) NEMA 4X/6P | IP66/68 (0.2 bar, 24 h)/IP69K NEMA 4X/6P | IP65/IP68 (0.2 bar, 24 h)/IP69K NEMA 4X/6P |

HPR housing, B series, with screw locking for railway applications

The new HPR series of heavy-duty connectors consists of aluminum housings with screw locking. The B series housing features a high degree of vibration resistance and protection up to 69K. This makes it extremely well suited for special fields of application such as railway technology.





The HPR housings are certified to the highest degree of protection (IP69K), which allows them to remain reliably sealed even in extreme applications.



| Thread | B6 | B10 | B16 | B24 |
|--------|----|-----|-----|-----|
|--------|----|-----|-----|-----|


Sleeve housing

| | | | | | |
|---|-----|---------|---------|---------|---------|
|  | M20 | 1411879 | | | |
| | M25 | 1411106 | 1411882 | | |
| | M32 | | 1411067 | 1411059 | 1411888 |
| | M40 | | | 1411885 | 1411062 |
|  | M20 | 1411878 | | | |
| | M25 | 1411119 | 1411881 | | |
| | M32 | | 1411070 | 1411058 | 1411887 |
| | M40 | | | 1411884 | 1411061 |

Panel mounting base without cover

| | | | | | |
|---|--|---------|---------|---------|---------|
|  | | 1411122 | 1411083 | 1411060 | 1411055 |
|---|--|---------|---------|---------|---------|


Box mounting base without cover


| | | | | | |
|--|---------|---------|---------|---------|---------|
|  | 2 x M20 | 1411880 | | | |
| | 2 x M25 | 1411135 | 1411883 | | |
| | 2 x M32 | | 1411096 | 1411054 | 1411889 |
| | 2 x M40 | | | 1411886 | 1411063 |


Technical data

| | |
|--|----------------------------|
| Housing material | Cast aluminum |
| Surface material | Powder-coated, black |
| Locking screw material | Stainless steel |
| Sealing material | NBR, conductive |
| Ambient temperature (operation) | -40°C ... +125°C |
| Degree of protection (when plugged in) | IP68 (0.5 bar, 24 h)/IP69K |


Accessories

| Thread | | Order No. |
|---|-----|-----------|
| Plastic filler plug | | |
| For metric screw openings | | |
|  | M20 | 1415206 |
| | M25 | 1415207 |
| | M32 | 1415208 |
| | M40 | 1410767 |




| Reduction | | Order No. |
|---|------------|-----------|
| Plastic reducing adapter | | |
| For metric screw openings | | |
|  | M32 to M25 | 1410712 |
| | M32 to M20 | 1410725 |
| | M40 to M32 | 1410738 |
| | M40 to M25 | 1410741 |


| Outside Ø | | Order No. | |
|---|---------|-----------|---------|
| Corrugated pipe adapters for plastic protective hoses | | | |
| For HEAVYCON EVO plastic housing, B series, for protective hose outside diameter | | | |
|  | 21.2 mm | M20 | 1412021 |
| | 28.5 mm | M25 | 1411973 |
| | 34.5 mm | M32 | 1412022 |
| | 42.5 mm | M40 | 1412023 |

| Outside/inside Ø | Bending radius Static/dynamic | Order No. |
|--------------------------------|----------------------------------|-----------|
| Plastic protective hose | | |
| Black, plastic, PA 6.6 HB | | |
| 21.2 mm/16.5 mm | 45 mm/75 mm | 3240683 |
| 28.5 mm/23 mm | 55 mm/100 mm | 3240684 |
| 34.5 mm/29 mm | 65 mm/120 mm | 3241088 |
| 42.5 mm/36 mm | 90 mm/150 mm | 3241089 |

| | B6 | B10 | B16 | B24 |
|--|--|---------|---------|---------|
| Cover plate | | | | |
|  | For HEAVYCON panel cutouts, height: 3.5 mm | | | |
| | 1660368 | 1660371 | 1660384 | 1660397 |

| Replacement latch | | | | |
|--|---|---------|---------|---------|
|  | Single locking latch, plastic, for HEAVYCON EVO plastic housing | | | |
| | 1407697 | 1407698 | 1407700 | 1407701 |
| | Double locking latch, plastic, for HEAVYCON EVO plastic housing | | | |
| | 1407696 | 1407696 | 1407696 | |

| Replacement seals | | | | |
|--|---|---------|---------|---------|
|  | Replacement flat gasket for HEAVYCON EVO plastic panel mounting base | | | |
| | 1407702 | 1407703 | 1407704 | 1407705 |
|  | Replacement profile gasket for HEAVYCON EVO plastic supporting base element | | | |
| | 1407706 | 1407707 | 1407708 | 1407709 |
|  | Replacement profile gasket for HEAVYCON ADVANCE sleeve housing for extremely uneven mounting panels | | | |
| | 1409794 | 1409804 | 1409817 | 1409820 |

| Marking label | |
|--|--|
|  | Unmarked, UniSheet, 0.5 mm thick, 70-section, lettering field size: 20 x 9 mm, white |
| | 0829439 |

B6 B10 B16 B24

Plastic protective cover

Protective cover for panel mounting base, box mounting base, and coupling housing with single locking latch, with retaining cord, without seal

| | | | |
|---------|---------|---------|---------|
| 1414623 | 1414625 | 1414626 | 1414627 |
|---------|---------|---------|---------|

Protective cover for panel and box mounting base and coupling housing with double locking latch and retaining cord, without seal

| | | | |
|--|---------|---------|---------|
| | 1414628 | 1414629 | 1414630 |
|--|---------|---------|---------|

Protective cover for sleeve housing without single locking latch, with retaining cord, with seal

| | | | |
|---------|---------|---------|---------|
| 1414634 | 1414635 | 1414636 | 1414637 |
|---------|---------|---------|---------|

Protective cover for sleeve housing without double locking latch, with retaining cord, with seal

| | | | |
|--|---------|---------|---------|
| | 1414638 | 1414639 | 1414640 |
|--|---------|---------|---------|

Protective cover for sleeve housing with double locking latch, with retaining cord, with seal

| | | | |
|--|---------|---------|---------|
| | 1414631 | 1414632 | 1414633 |
|--|---------|---------|---------|



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