

HEAVYCON EVO

Market requirements

- Cost-efficiency
- Logistic-efficiency
- Easy to install
- Ecologically aspects



HEAVYCON EVO

Product introduction

The evolution in heavy-duty connectors

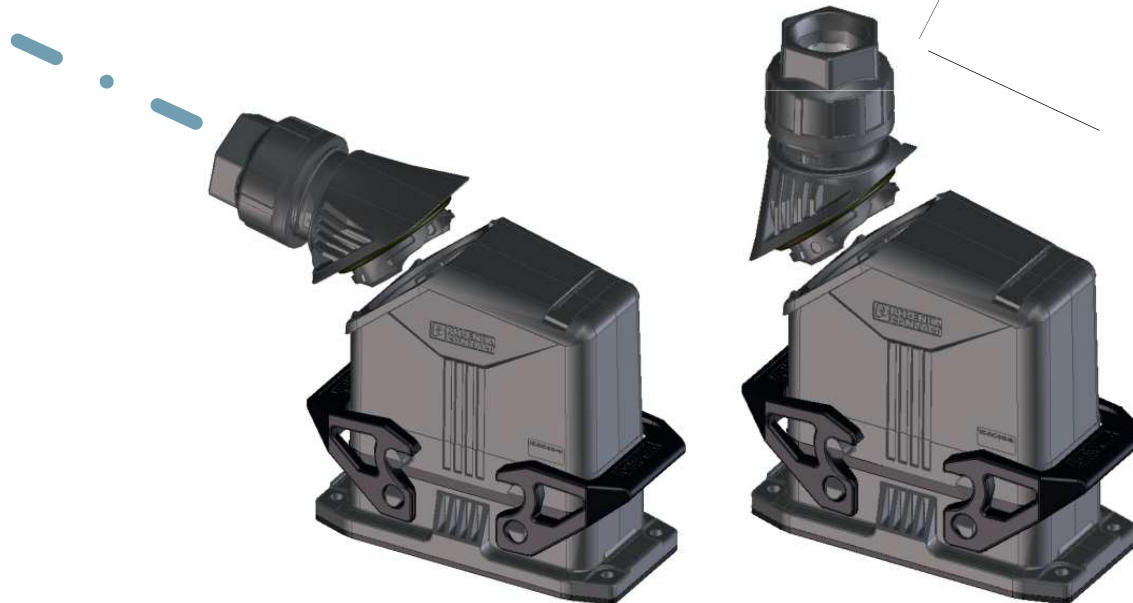


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Product introduction



M20, M25, M32 and M40



IP65 /
NEMA 4X

HC EVO-Lock:
Cable gland with
bayonett lock

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Product introduction

Metal inlays ensure premating PE contact

DIN EN 61 984
DIN EN 60 664-1
UL 1977



Two metal inlays are used in the housings to fix the contact inserts and coding screws.

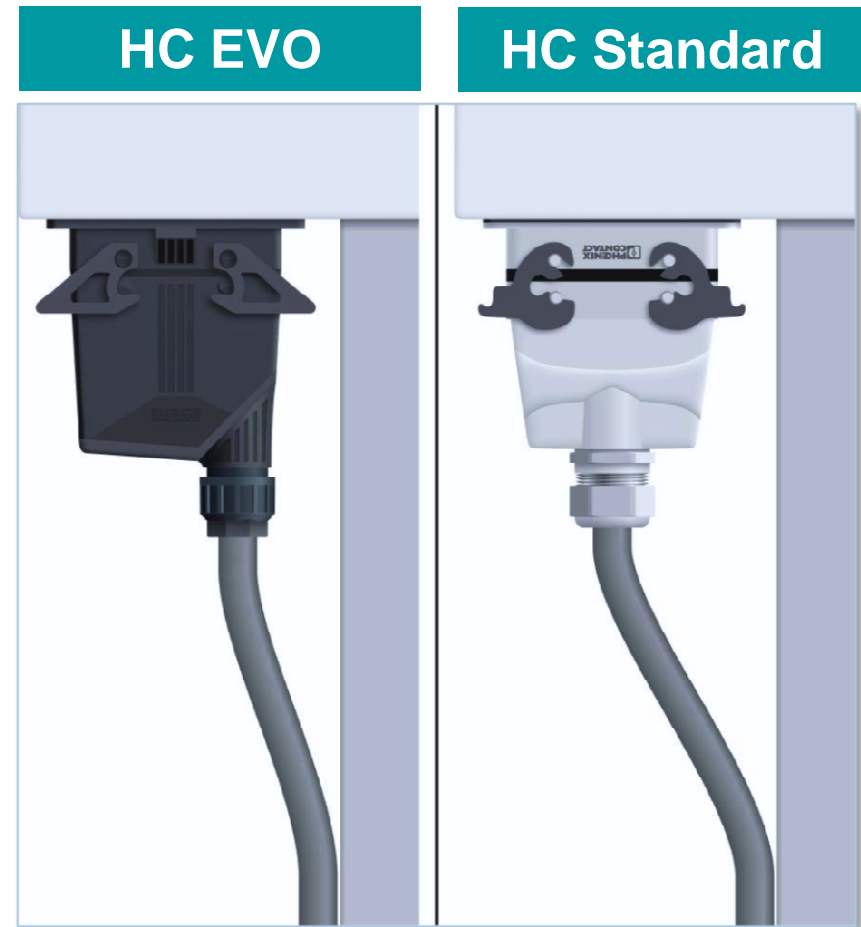
Meanwhile they serve as an electric bridge between PE-contact of the male and female inserts, so as to ensure the conformity to norms.

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Product introduction

Asymmetric top entry

- Good ergonomics
- Smart cable leading



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Product introduction

Mounting by hand



Dismounting with tool



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Product introduction

Easy installation due to HC EVO-Lock

HC EVO



HC Standard



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Product introduction

Advantages of plastic material

- Cost-saving of 25%
- 50% reduction in weight
- 80% energy saving in production (plastic vs. aluminium)
- Excellent mechanical properties, high resistance against environmental influences. (IK08)
- Suitable for protection class II
- Halogen free and guaranteed UL94 V0 (flammability retardance class)



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Product introduction



Sustainable use of resources

PP KEA : 118,8 MJ/Kg

Alu KEA : 193,3 MJ/Kg

Tabelle 2: Produktionsenergie als kumulierter Energieaufwand (KEA) im Vergleich zu Beschaffungs- und Entsorgungskosten von Kunststoffen und anderen Materialien

| Material | KEA MJ/kg | Beschaffungskosten | | Heizwert MJ/kg |
|---------------------------|-----------|--------------------|-----------|----------------|
| | | €/t | €/MWh KEA | |
| Naphtha (Rohbenzin) | 55 | 332 | 21,7 | 43,5 |
| LDPE Folie | 91,8 | 800 | 31,4 | 46 |
| HDPE Folie | 99,8 | 800 | 28,9 | 46 |
| PP Spritzguss | 118,8 | 850 | 25,7 | 44 |
| PVC Folie | 66,3 | 820 | 44,6 | 20 |
| PS (high impact) | 91,8 | 860 | 33,7 | 46 |
| PET Flasche | 101,4 | 1060 | 37,6 | 46 |
| PET Folie | 109,2 | 1020 | 33,6 | 46 |
| Stahl | 35,8 | 247 | 24,8 | 0 |
| Aluminium | 193,3 | 1450 | 27,0 | 0 |
| Weißglas | 12,7 | 140 | 39,6 | 0 |
| Wellpappe, Karton | 19,8 | 160 | 29,1 | 15 |
| Papier (grafische etc.) | 44,8 | 500 | 40,2 | 17 |
| Holzspäne f. Pressplatten | 17,0 | 55 | 11,6 | 16 |
| Stammholz, frisch | 14,0 | 150 | 38,6 | 10 |
| Stammholz, getrocknet | 19,0 | 220 | 41,7 | 15 |

Ecological backback factors:
5 for plastics / 75 for aluminium

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Product introduction

Complete programm

- The HC-EVO hoods made of plastic are available in size of **B6, B10, B16 and B24** with single or double locking latches.
- The corresponding housings are bulkhead housings, panel mount housings and coupling housing **with or without protection cover**.
- All cable glands of standard sizes from **M20 to M40** are covered with the HEAVYCON EVO-Lock-connection.



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Product introduction

Fully compatible

Fits to all standard and HC modular inserts



Fully compatible to the aluminium housings of all competitors

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Product introduction

Advantages of the surface mount housing

- The covers are removeable to both sides
- The locking latches are changeable
- Variants are 50% reduced through optional single & double cable entry (lid can be broken out)



HEAVYCON EVO – safety and stability



Robust



Protection type IP65



Pull test



Compatible



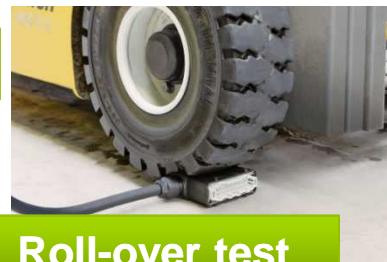
Vibration test



-40°C to +125°C approved



Impact test IK08



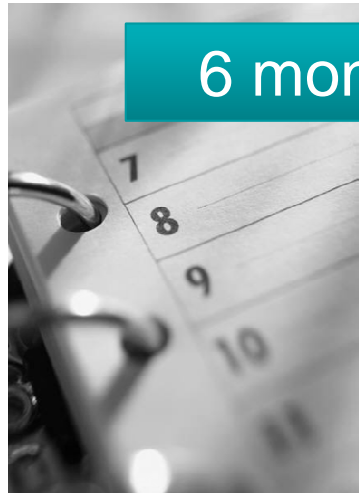
Roll-over test

Robust and compatible as metal housings!

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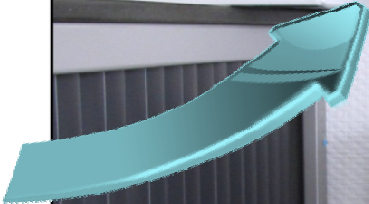
Safety and stability

Long term rugged locking latches



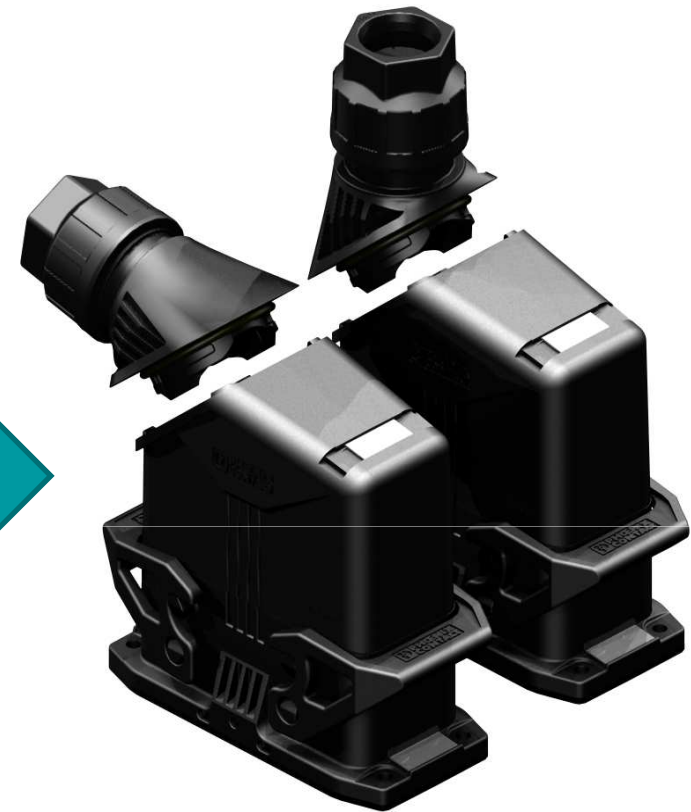
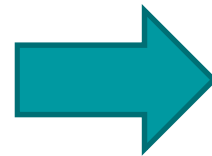
6 months

stress



4 kg

The evolution in heavy duty connectors



**70% Reduction of Variants
means greater stock availability**

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Typ-ident

EVO-housings

| | | | | | | | | | | | | | | |
|----|-------|-------|-----|---|----|---|-----|---|-----|------|-------|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 | 26 |
| HC | - EVO | - B06 | - H | L | FS | C | - 1 | G | M25 | - PL | BK | 21 | | |
| HC | - EVO | - B10 | - B | L | WS | C | - 2 | S | S | M32 | - PLR | BK | 29 | |
| HC | - EVO | - B16 | - S | L | FD | C | - 2 | S | S | PG13 | - PLR | BK | 30 | |
| HC | - EVO | - B16 | - S | L | FD | C | - 2 | S | S | PG13 | - PLR | BK | 28 | |
| HC | - EVO | - B24 | - C | H | WD | | - 1 | T | T | M40 | - PLV | BK | | |

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SERIES:

EVO = EVOLUTION

HOUSING TYPE & SIZE:

HOUSING TYPE

H = HOOD
 B = PANEL BASE / BULKHEAD HOUSING
 S = SURFACE MOUNT HOUSING
 C = COUPLER HOOD

CONSTRUCTION HEIGHT

H = HIGH CONSTRUCTION
 L = LOW CONSTRUCTION

CONNECTOR FIXING:

WS = WITH SINGLE LEVER
 WD = WITH DOUBLE LEVER
 FS = FOR SINGLE LEVER
 FD = FOR DOUBLE LEVER

DUST COVER:

C = PLASTIC
 CM = METAL

NUMBER OF GLAND ENTRIES:

LOCATION OF GLAND ENTRY

T = TOP
 S = SIDE

TYPE OF ENTRY

G = WITH CABLE GLAND

THREAD TYPE AND SIZE

MATERIAL TYPE AND FINISH

PLR = PLASTIC with NBR RUBBER SEALING PROFILE
 PLV = PLASTIC with VITON SEALING PROFILE

HOUSING COLOUR:

BK = BLACK

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Key features

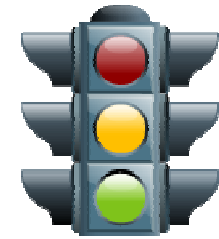
Reduction of total cost of ownership






























- Less design-in costs
- Less master data in the system
- Less equipment costs in the production
- Less stock-keeping / logistics worldwide till to end customers. (15 -20 % of logistic costs is reduced by the rotatable uniform connection EVO-Lock)
- Less re-ordering positions
- Larger ordering quantity of the same type
- Less inventory holding and capital lock-up for PxC, for subsidiaries , for distributors and for end customers.
- Better availability worldwide

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Comparison with competitor products



| |  |  |  |
|---|--|--|--|
| Material | Plastic  | Plastic  | Plastic  |
| Connection to cable glands | Metric thread  | Metric thread  | HC EVO-Lock  |
| Product range | Only Double Locks  | Just one housing height  | Full program  |
| Range of cable glands | M32, M40  | M25-M40  | M20-M40  |
| Compatibility to the Standard housings | No  | Conditionally compatible  | Fully compatible  |
| Compatibility to the Inserts | Only compatible to modular inserts  | Fully compatible  | Fully compatible  |
| Premating PE contact | Optional  | No  | Yes  |
| Mechanical features (IK 08 / 5 Joule) | Acceptable  | Deficient  | Excellent  |

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Field of applications



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Field of applications

Recommended applications for metal housings



Extreme cold and dry



Extreme hot and humid



Drives and **EMC**

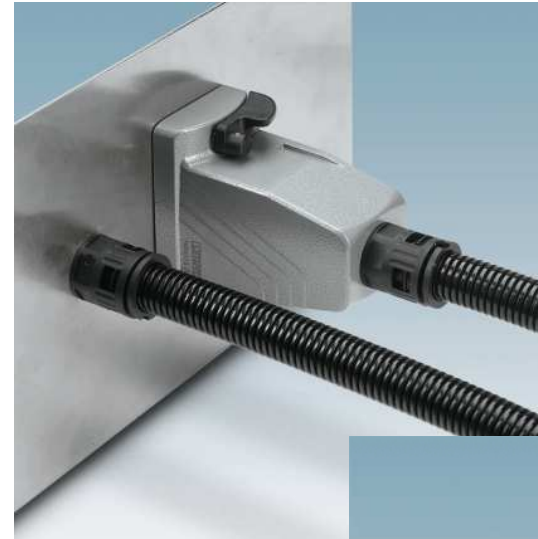
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Accessories

HC EVO conduit adapter

- Seperate EVO-lock version
- Protection degree IP66/68
- Particular sizes for conduit outer diameters:
 - 21,2 mm (M20) 3241220
 - 28,5 mm (M25) 3241221
 - 34,5 mm (M32) 3241222
 - 42,5 mm (M40) 3241223

For conduits please have a look
in the new M&I catalogue



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Accessories

Marking material US-EMP (20x9)

- With THERMOMARK CARD or THERMOMARK CARD PLUS
- 8 sec. per card
- Thermotransfer technology
- Immediate printing
- Printing with 300Dpi
- Immediately wipe and scratch resistant
- printing is very resistant against external influences



Printing with THERMOMARK CARD (PLUS)

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Final features in comparison with alu-housings



lower price

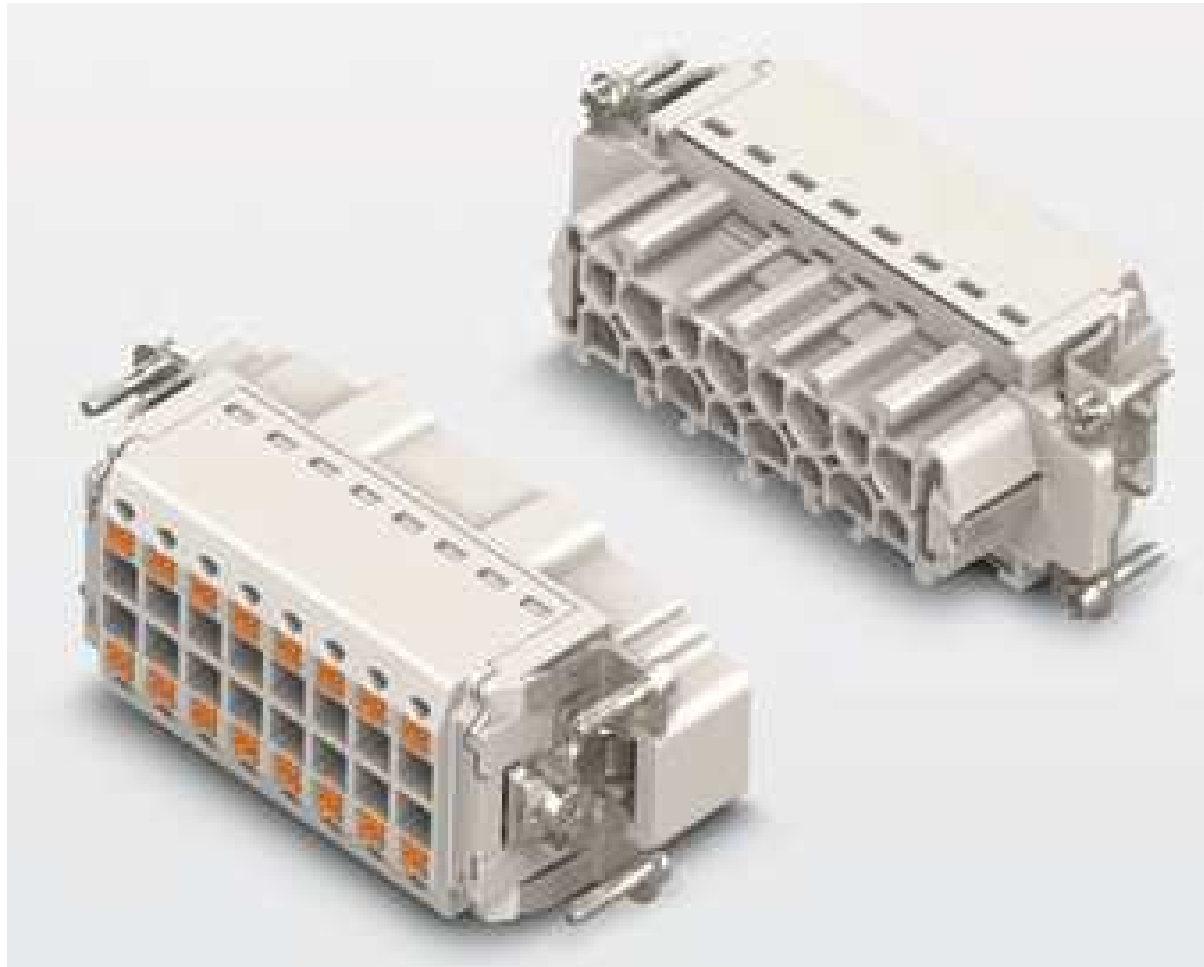
due to plastic housing

reduced stock

due to EVO-Lock cable gland

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PT contact inserts



HEAVYCON contact inserts with push-in-connection



Installation guide

Strategy – PLUSCON heavy



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