

HEAVYCON EVO

Market requirements

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



HEAVYCON EVO

Product introduction

The evolution in heavy-duty connectors

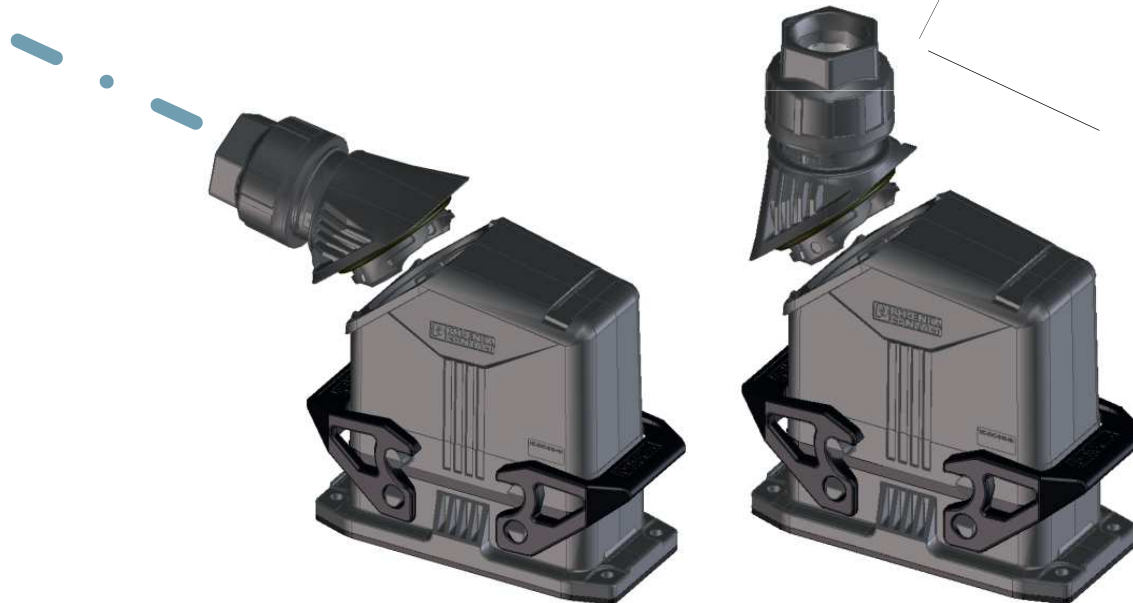


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Product introduction



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.

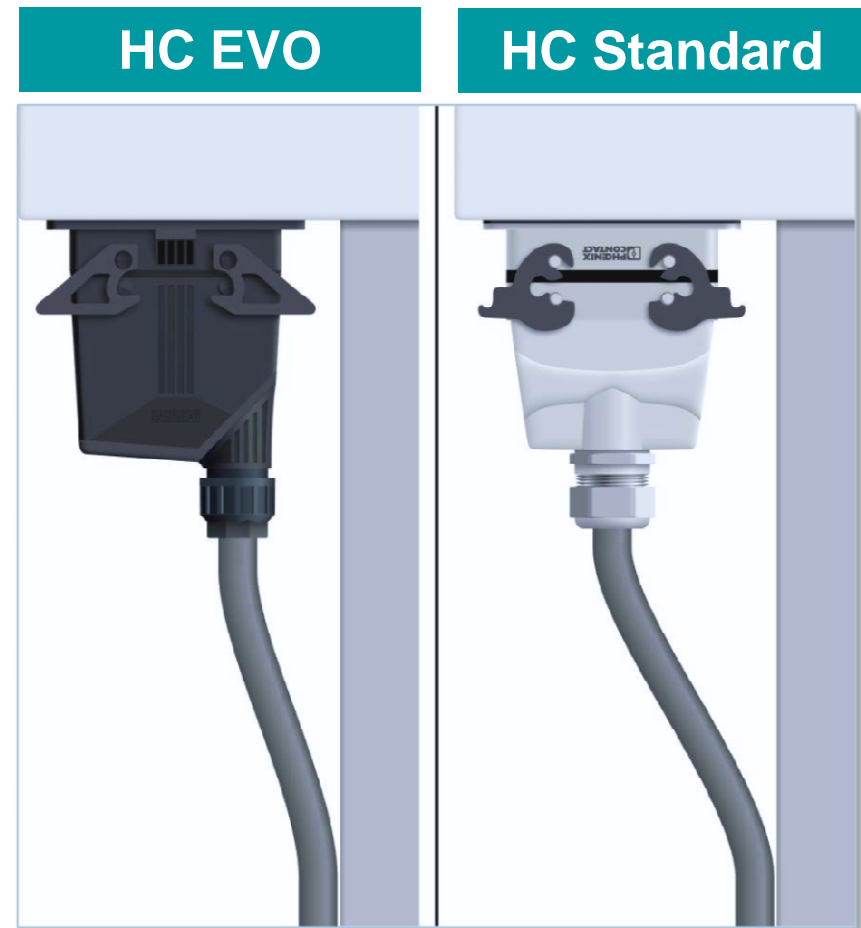
Meanwhile they serve as an electric bridge between PE-contact of the male and female inserts, so as to ensure the conformity to norms.

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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

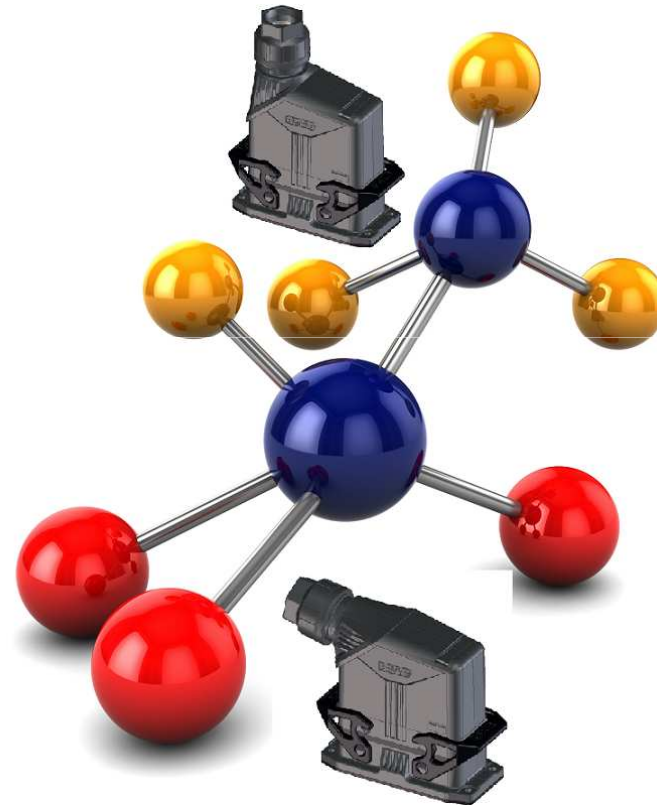


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Product introduction

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



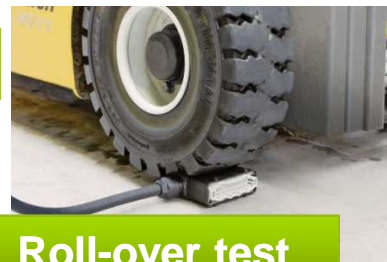
Vibration test



-40°C to +125°C approved



Impact test IK08



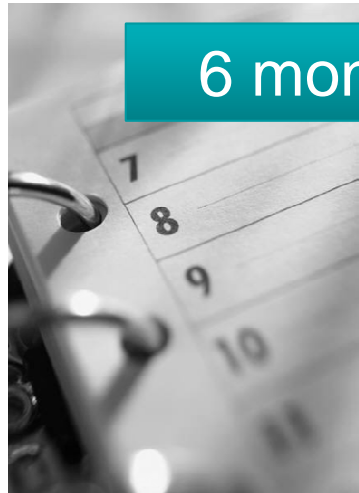
Roll-over test

Robust and compatible as metal housings!

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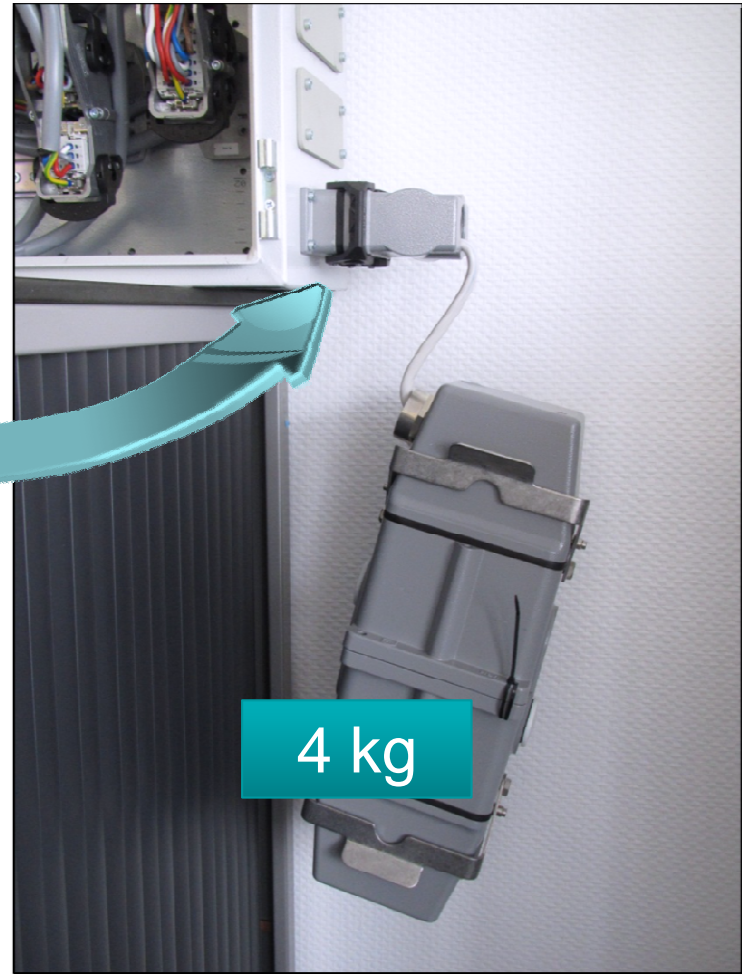
Safety and stability

Long term rugged locking latches



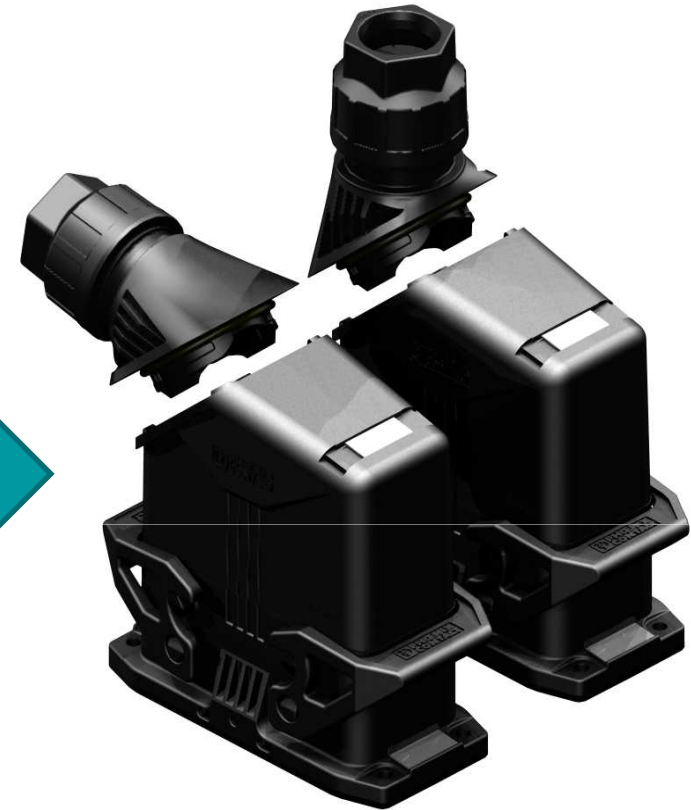
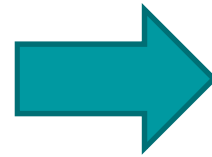
6 months

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

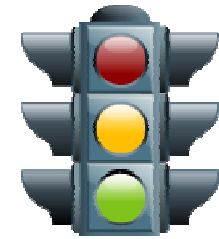
Reduction of total cost of ownership





















- 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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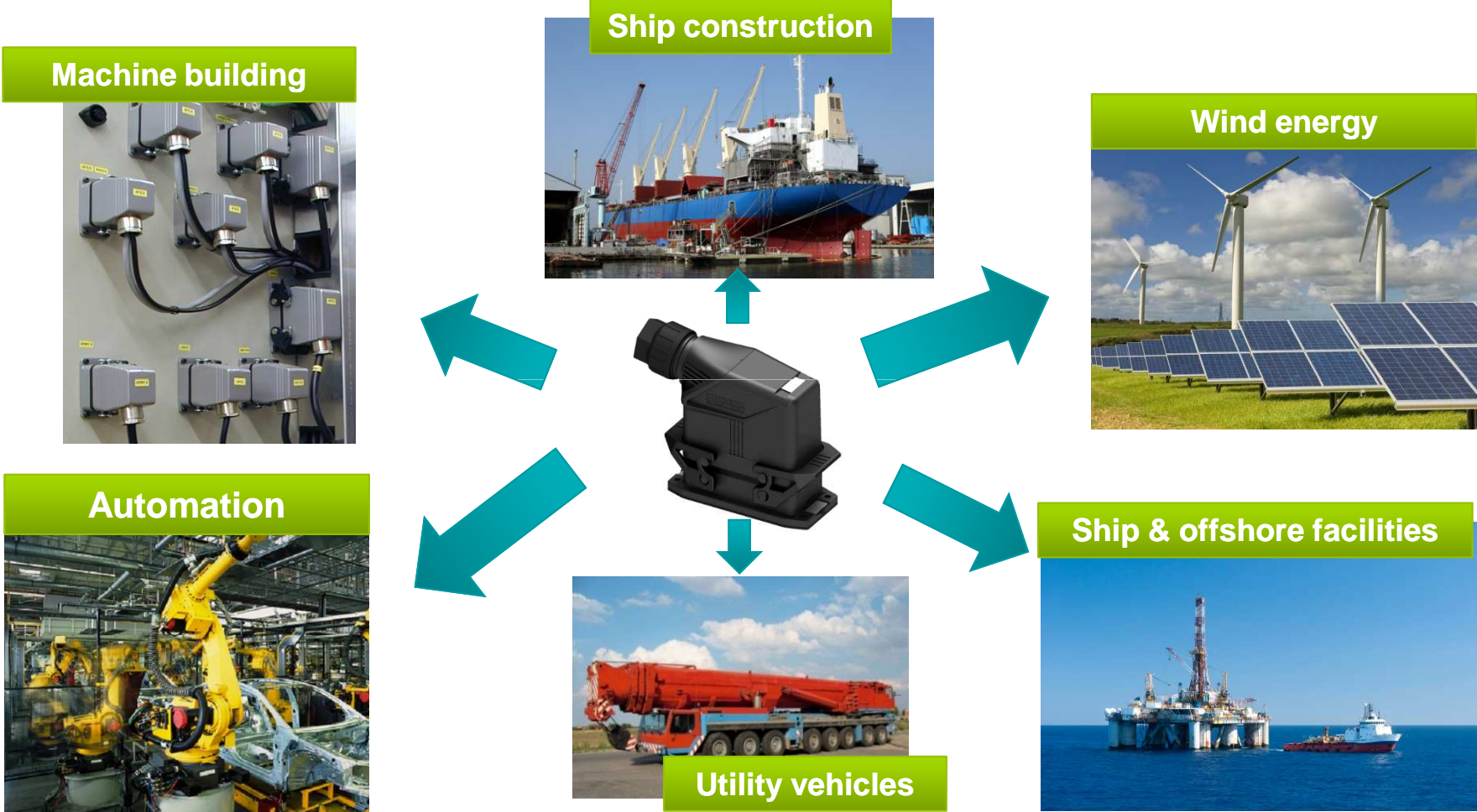
Comparison with competitor products



			
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

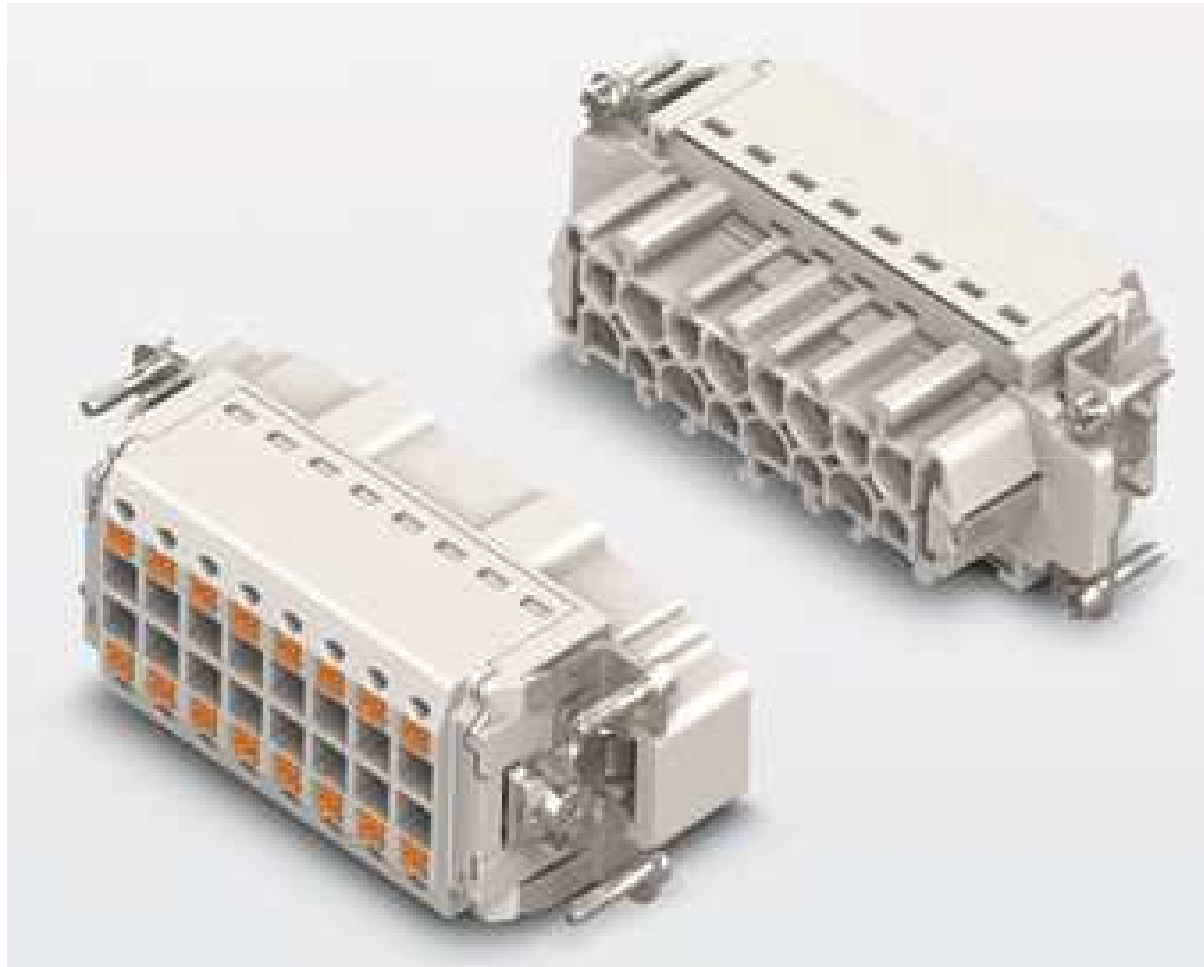
due to plastic housing

reduced stock

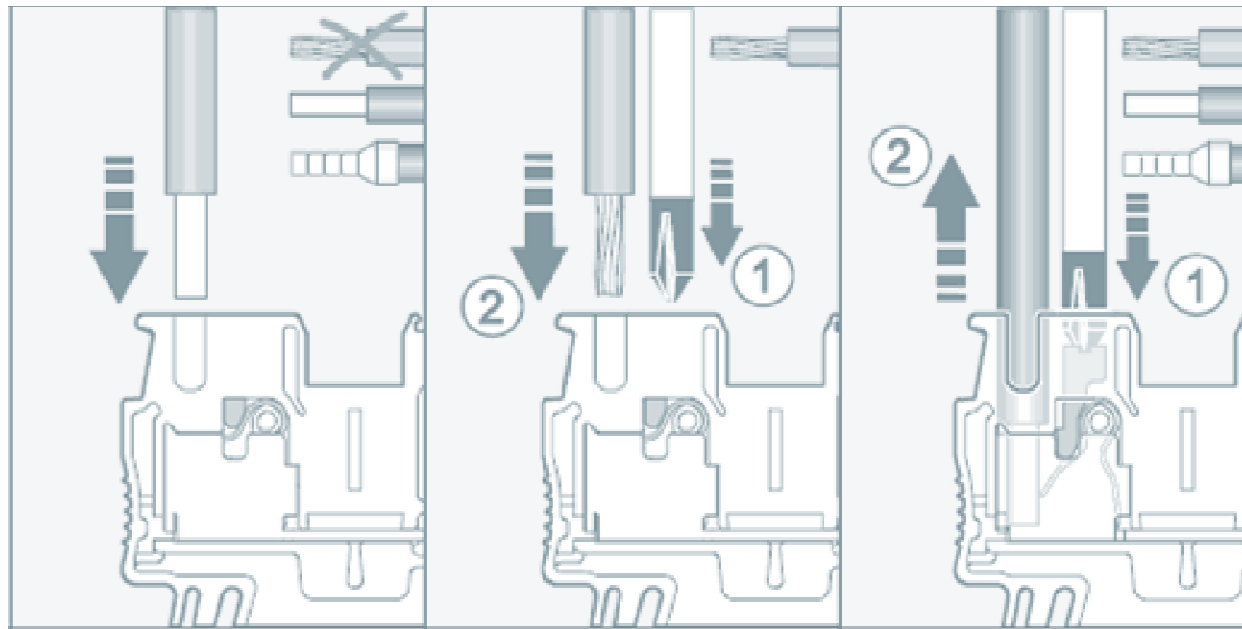
due to EVO-Lock cable gland

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PT contact inserts



HEAVYCON contact inserts with push-in-connection



Installation guide

Strategy – PLUSCON heavy



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