HEAVYCON EVO
Market requirements

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

PHŒNIX CONTACT
INSPIRING INNOVATIONS

HEAVYCON EVO
Product introduction

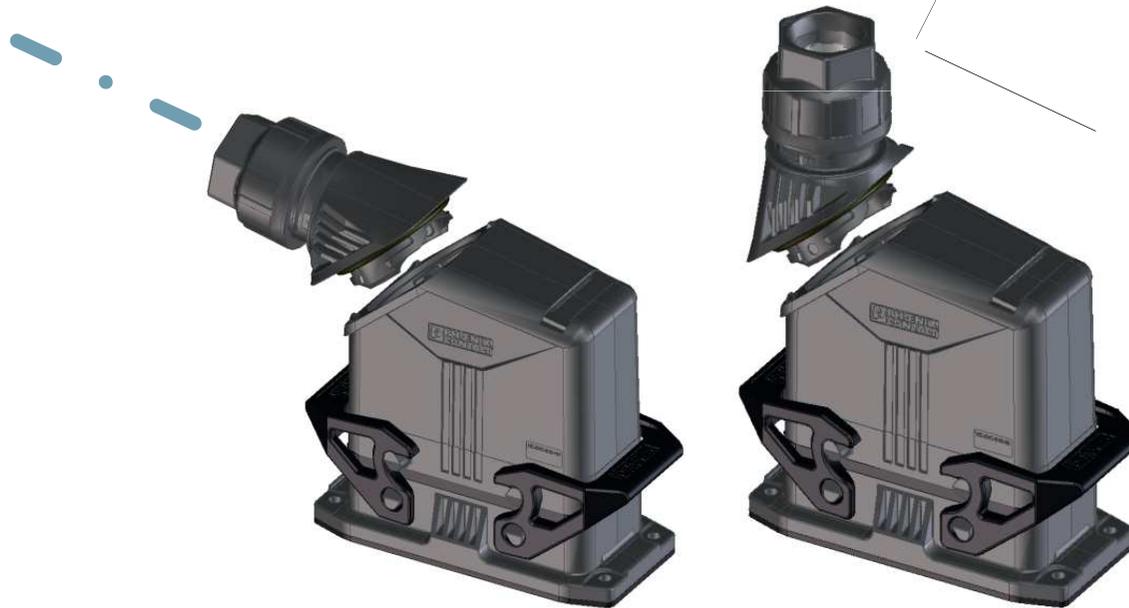**The evolution in heavy-duty connectors**

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HEAVYCON EVO
Product introduction

M20, M25, M32 and M40

IP65 / NEMA 4X

HC EVO-Lock:
Cable gland with
bayonett lock

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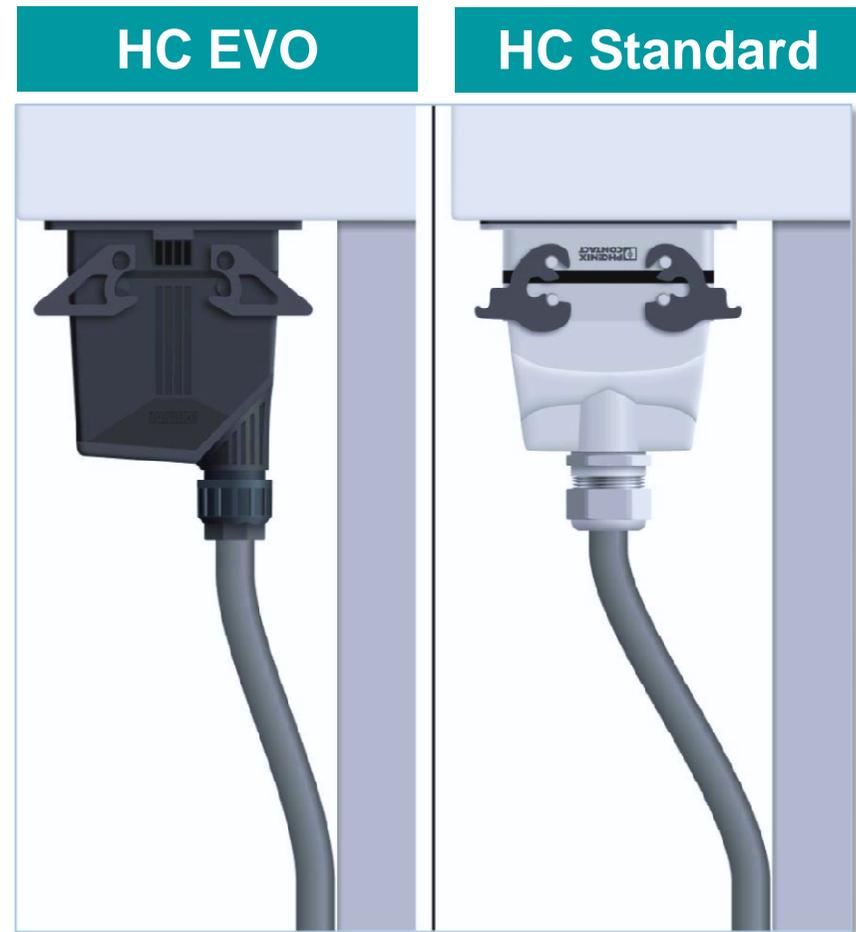
Meanwhile they serve as an electric bridge between PE-contact of the male and female inserts, so as to ensure the conformity to norms.

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HEAVYCON EVO
Product introduction

Asymmetric top entry

- Good ergonomy
- Smart cable leading

HC EVO | HC Standard

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HEAVYCON EVO
Product introduction

Mounting by hand

Dismounting with tool

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HEAVYCON EVO
Product introduction

Easy installation due to HC EVO-Lock

HC EVO
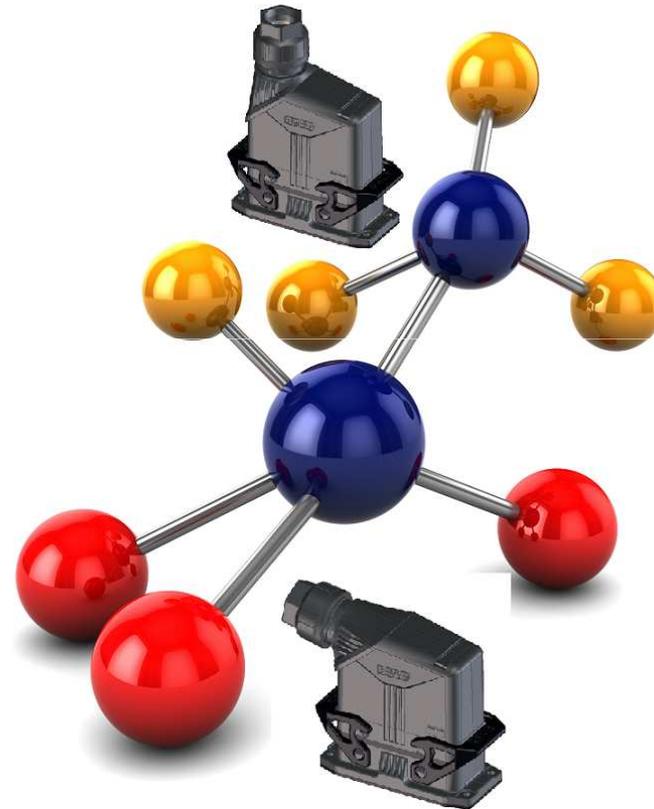
HC Standard

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HEAVYCON EVO
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 garanteed UL94 **V0** (flammability retardance class)

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HEAVYCON EVO
Product introduction

Sustainable use of recources

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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HEAVYCON EVO
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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HEAVYCON EVO
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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INSPIRING INNOVATIONS

HEAVYCON EVO
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)

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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!

HEAVYCON EVO
Safety and stability

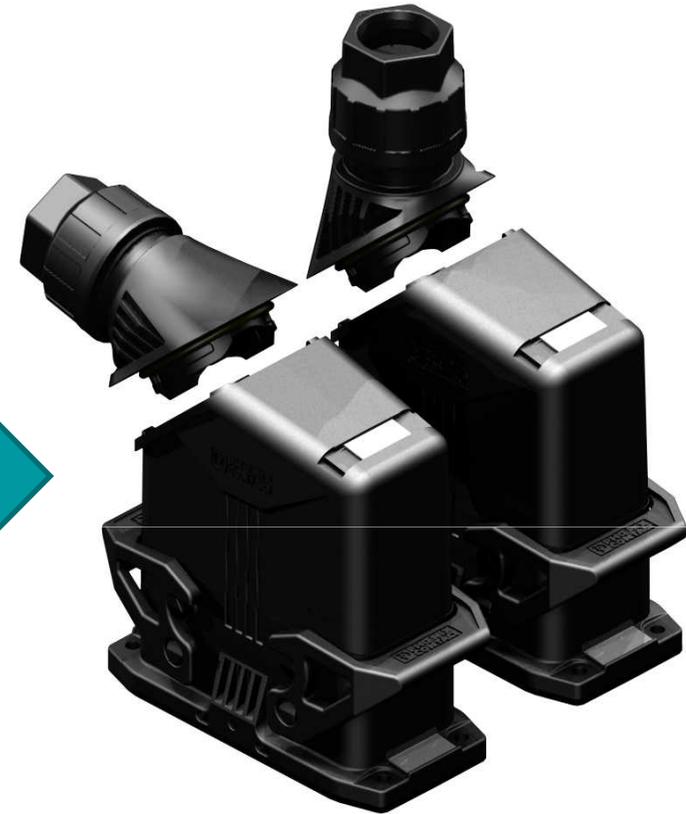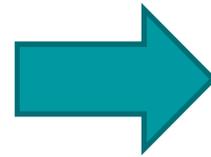Long term rugged
locking latches

6 months

stress

4 kg

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The evolution in heavy duty connectors

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

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HEAVYCON EVO
Typ-ident

EVO-housings

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

HEAVYCON

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

16

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HEAVYCON EVO
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 quatity of the same type

- Less inventory holding and capital lock-up for PxC, for subsidiaries , for distributors and for end customers.

- Better availability worldwide

COST

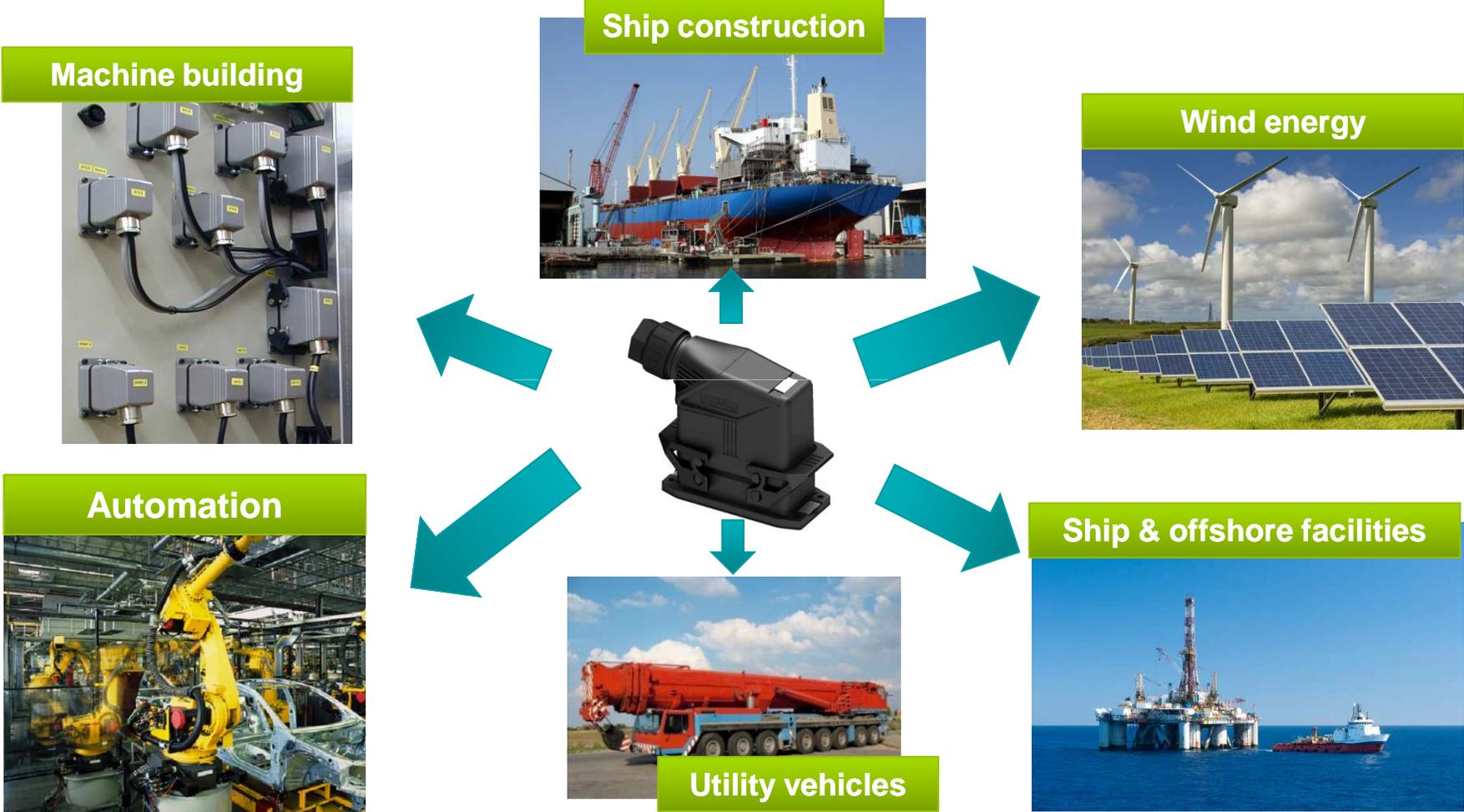PHŒNIX CONTACT
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HEAVYCON EVO
Comparison with competitor products

	HARTING	ILME	PHOENIX CONTACT
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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HEAVYCON EVO
Field of applications

Machine building

Ship construction

Wind energy

Automation

Utility vehicles

Ship & offshore facilities

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HEAVYCON EVO
Field of applications

Recommended applications for metal housings

Extreme cold and dry

Extreme hot and humid

Drives and EMC

HEAVYCON EVO
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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HEAVYCON EVO
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)

HEAVYCON EVO
Final features in comparison with alu-housings

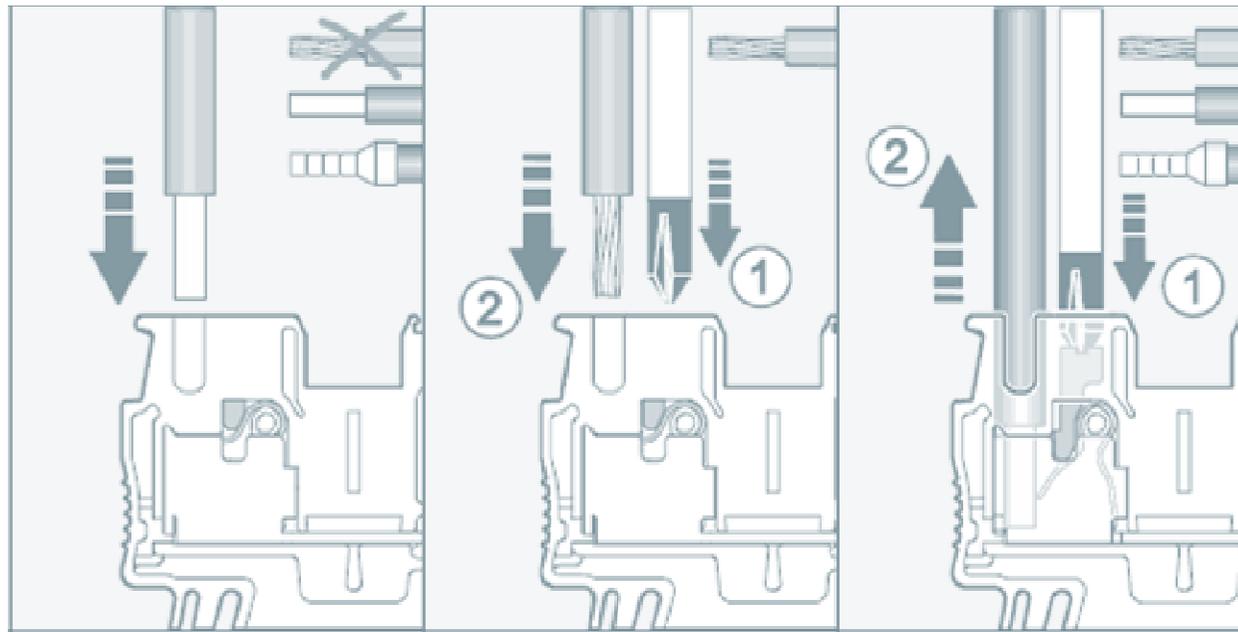lower price

due to plastic housing

reduced stock

due to EVO-Lock cable gland

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HEAVYCON
PT contact inserts

HEAVYCON contact inserts
with push-in-connection

Installation guide

Strategy – PLUSCON heavy

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Phoenix Contact *manufacturer:*

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1212619 3240366 1893300 1582235 1773093 2814045 2989433 2963886 2966537 FFKDS/V-2.54 2313944 2834546 DFK-PC 5/ 2-ST-7,62 2834520 2834407 1687312 3056145 0902221 1775619 1674998 2858894 443023 2905235 2833547 3240098 0825544:3 2905234 0201391 0201414 CRIMPFOX 16 S CRIMPSET 25 7001438 MC 1,5/ 9-ST-3,5 1840434 ETD-BL-1T-F-300S MCR-1CLP-I-I-00 MCR-4CLP-I-I-00 MCR-DAC 8-I- 4-BUS MCR-SWS-I MCV 1,5/ 3-G-3,81 1803439 FL EPA WMS FLK 50/EZ-DR/ 400/KONFEK/S FLS PB M12 DO 8 M12-2A PPS CD BLADE PR1-RSC3-LV-120AC/21 PSI-MOS-DNET CAN/FO 660/BM PSM-ME-RS232/RS232-P PSM PTK-4 PSM-SET-FSMA/4-KT PT 2X2- 5DC-ST 1201280