

Available
May 2015

Connectors for explosion hazardous environments



Features

- Hoods and housings in the sizes 6 B, 10 B, 16 B and 24 B
- Connectors especially for explosion hazardous applications
- Suitable for intrinsically safe circuits
- Inserts on the basis of Han® E with 6 to 24 contacts



WARNING

Industrial connectors of the Han® Ex series are designed exclusively for the use in intrinsically safe electrical circuits of categories "ia", "ib" and "ic"!

- ▶ The explosion group is defined by the corresponding intrinsically safe equipment.
- ▶ Temperature class according to DIN EN 60079-11


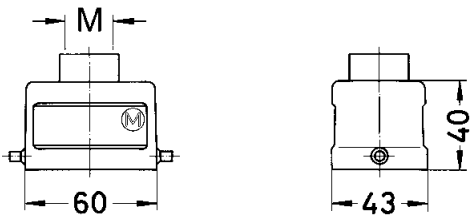

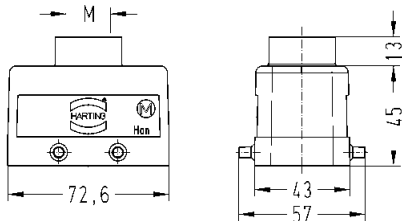

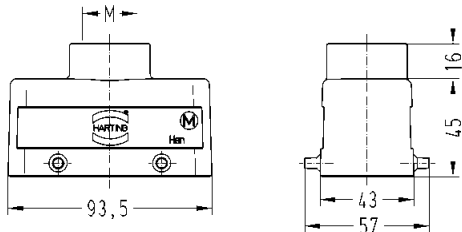

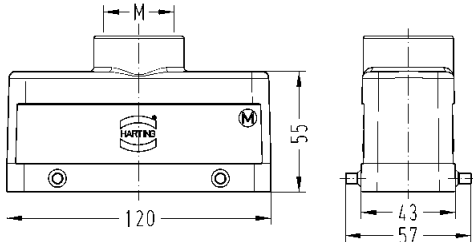
General description


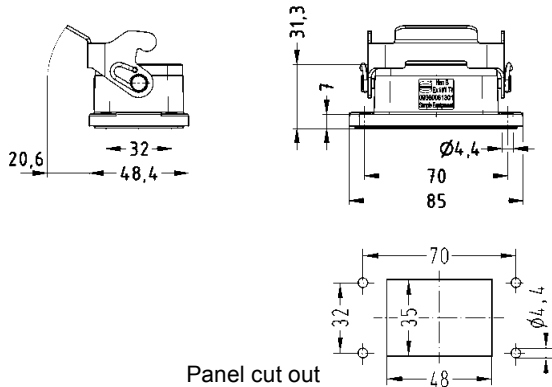

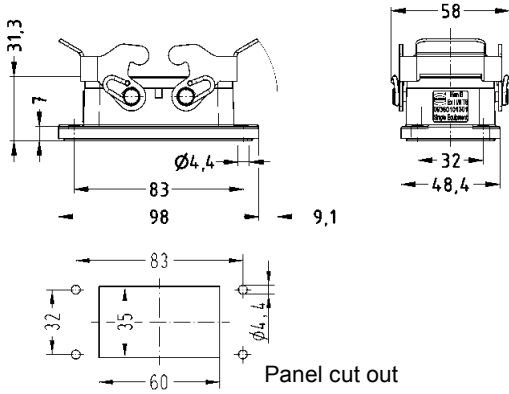

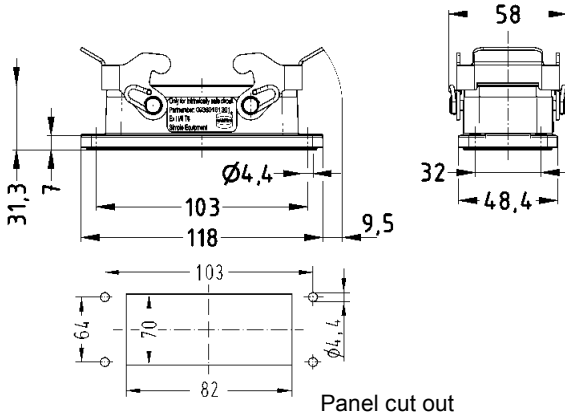

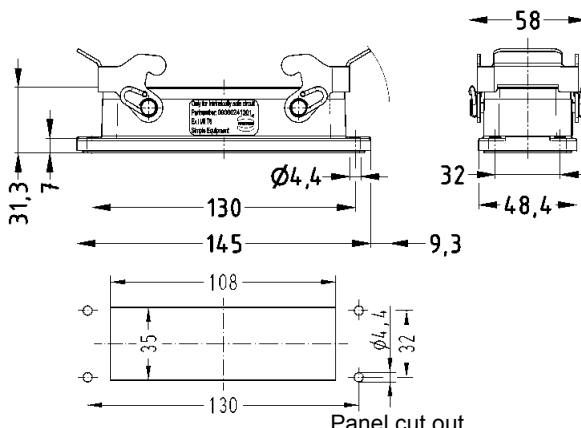
The connectors are designed to meet the intrinsic safety requirements for ignition protection class in explosion hazardous areas classed as 1 and 2. In intrinsically safe circuits, energy is limited in such a manner that even a potential spark cannot ignite an explosive environment.

The Han® Ex product portfolio offers complete connector systems consisting of housings and inserts, including housings made from an alloy that can be used in pulverised methane-coal dust atmospheres. They also offer ignition protection class 65 in the mated condition. The housing's blue colour indicates that an intrinsically safe circuit is present. The contact inserts provide a high number of pins and meet the standards of the ignition protection class even in the tightest of spaces.

Technical characteristics

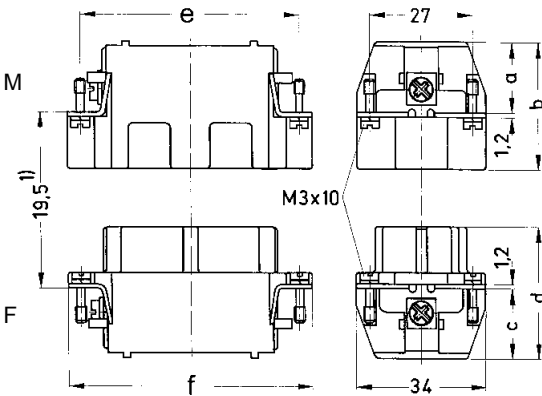
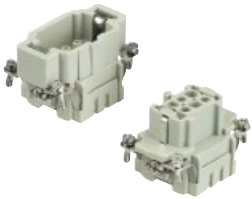

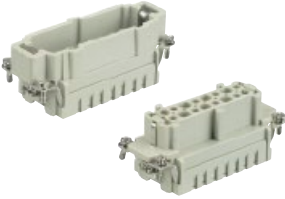
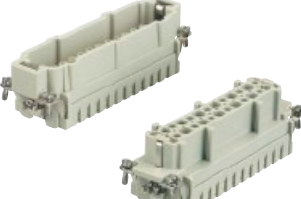
Specifications	DIN EN 60 079-0, -11, -14 DIN EN 60 664-1 DIN EN 61 984
Hoods/ housings	
Material	zinc die cast
Colour	RAL 5015 (blue)
Surface	powder coated
Locking element	stainless steel
Lever type	metal lever
Seal	NBR
Limiting temperatures	-20 °C ... +40 °C
Protection degree acc. to DIN EN 60 529 in locked position	IP65 is achieved with cable gland
Inserts	
Number of contacts	6, 10, 16, 24
Rated current	16 A
Rated voltage	90 V
Insulation resistance	$\geq 10^{10} \Omega$
Material	polycarbonate
Limiting temperatures	-20 °C ... +40 °C
Mechan. working life - mating cycles	≥ 500
Contacts	
Material	copper alloy
Surface - hard-silver plated	3 μm Ag
Contact resistance	$\leq 1 \text{ m}\Omega$
Crimp termination	0.14 ... 2.5 mm ² AWG 26 ... 14
Max. insulation diameter	3.6 mm

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood 6 B top entry 	19 36 006 1440	M20		
Hood 10 B top entry 	19 36 010 1421	M25		
Hood 16 B top entry 	19 36 016 1421	M25		
Hood 24 B top entry 	19 36 024 1442	M32		

Identification	Part number	Drawing	Dimensions in mm
Housing, bulkhead mounting 6 B 	09 36 006 1301	 <p>Panel cut out</p>	
Housing, bulkhead mounting 10 B 	09 36 010 1301	 <p>Panel cut out</p>	
Housing, bulkhead mounting 16 B 	09 36 016 1301	 <p>Panel cut out</p>	
Housing, bulkhead mounting 24 B 	09 36 024 1301	 <p>Panel cut out</p>	

Number of contacts

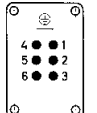
6, 10, 16, 24 +

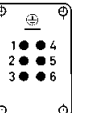
Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Han® Ex crimp insert 6 B ²⁾³⁾	09 36 006 2602	09 36 006 2702		
Order crimp contacts separately				
				
Han® Ex crimp insert 10 B ²⁾³⁾	09 36 010 2602	09 36 010 2702		
Order crimp contacts separately				
				
Han® Ex crimp insert 16 B ²⁾³⁾	09 36 016 2602	09 36 016 2702		
Order crimp contacts separately				
				
Han® Ex crimp insert 24 B ²⁾³⁾	09 36 024 2602	09 36 024 2702		
Order crimp contacts separately				
				

Size	a	b	c	d	e	f
6 B	19	34	19	36	44	51
10 B	19	34	19	36	57	64
16 B	19	34	19	36	77.5	84.5
24 B	19	34	19	36	104	111

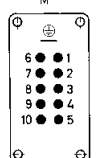
Contact arrangement
view from
termination side

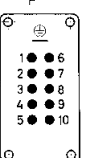
6 B



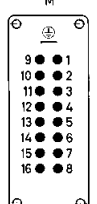


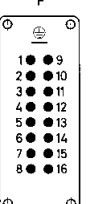
10 B



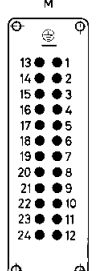


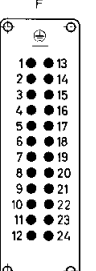
16 B





24 B





²⁾ Han® E crimp contacts can be ordered in the HARTING eCatalogue (www.HARTING.com)

³⁾ Further inserts on request