

For a complete connector components may be ordered from the following sub headings

Cable entry protection

- Universal cable glands
- Special cable clamp with strain relief, bell mouthed cable fitting and anti-twist devices
- Cable gland with normal or multiple seal
- Extensive range of accessories

Hoods

- low or high construction
- top or side cable entry
- 1 or 2 locking levers

Male insert with

- screw terminal or
- crimp terminal (order contacts separately)
- or cage-clamp terminal

Female insert with

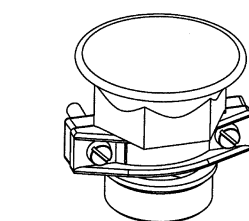
- screw terminal or
- crimp terminal (order contacts separately)
- or cage-clamp terminal

Housings

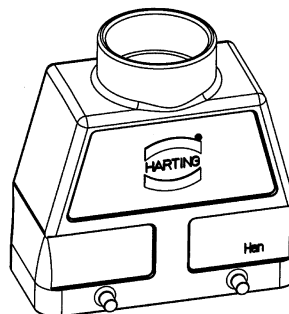
- Housing (bulkhead mounting) with or without thermoplastic or metal covers
- 1 or 2 locking levers
- Housing (surface mounting) low or high construction with or without thermoplastic or metal covers
- 1 or 2 locking levers
- 1 or 2 cable entries
- Hood (cable to cable)
- low or high construction
- for cable to cable connections

Accessories

- Protective covers available
- Code and guide pins for coding
- Special insert fixing screws for use without hoods and housings
- Label according to CSA-approval



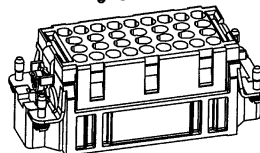
Cable clamp



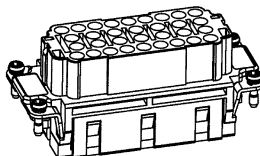
Hood



Male contacts



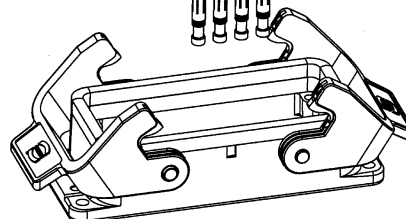
Male insert



Female insert



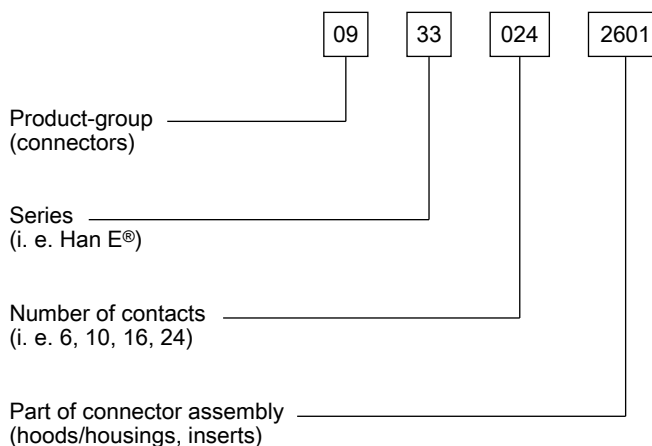
Female contacts



Housing

Part number explanation

Our computerized ordering system uses the following code:



Suitable hoods and housings will be found on the same page.

Features

- Compact design saves space
- Suitable for Han E® crimp contacts
- Leading PE contact with screw termination

Technical characteristics

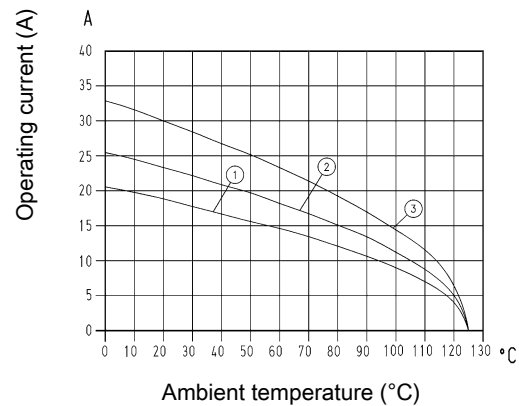
Number of contacts	5
Electrical data acc. to IEC 61984	16 A 230/400 V 4 kV 3
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Contact resistance	$\leq 1 \text{ m}\Omega$
Limiting temperature	-40 ... +125 °C
Flammability acc. to UL 94	V-0
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic

Derating

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- ① Conductor cross-section 1 mm²
- ② Conductor cross-section 1.5 mm²
- ③ Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 1977 ECBT2.E235076
UL 2237 PVVA2.E318390



Details

Crimping tools see chapter 90

Remarks on the crimp technique

The wire gauges mentioned in the catalogue refer to geometric wire gauges of cables.

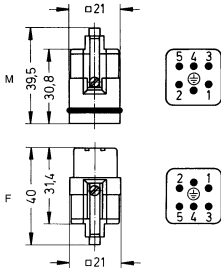
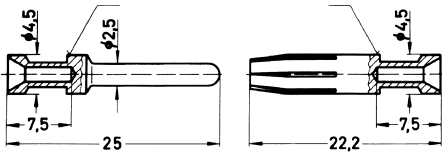
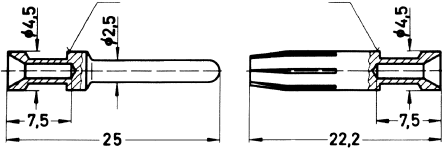
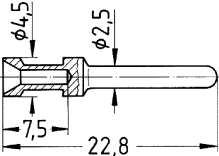
Coding pin

Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Number of contacts

5+

16 A 230/400 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)																		
		Male	Female																			
Han® Q , Crimp termination  Please order crimp contacts separately.	0,14 ... 2,5	09 12 005 3001	09 12 005 3101	 Contact arrangement (view from termination side)																		
Han E® , Crimp contact, Contact surface: Silver plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 33 000 6127 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202	 <table><thead><tr><th>Conductor cross-section</th><th>Identification</th></tr></thead><tbody><tr><td>0.14-0.37 mm²</td><td>AWG 26-22 no groove</td></tr><tr><td>0.5 mm²</td><td>AWG 20 no groove</td></tr><tr><td>0.75 mm²</td><td>AWG 18 1 groove*</td></tr><tr><td>1 mm²</td><td>AWG 18 1 groove</td></tr><tr><td>1.5 mm²</td><td>AWG 16 2 grooves</td></tr><tr><td>2.5 mm²</td><td>AWG 14 3 grooves</td></tr><tr><td>3 mm²</td><td>AWG 12 wide groove</td></tr><tr><td>4 mm²</td><td>AWG 12 no groove</td></tr></tbody></table> * on the back crimp collar Stripping length 7.5 mm	Conductor cross-section	Identification	0.14-0.37 mm²	AWG 26-22 no groove	0.5 mm²	AWG 20 no groove	0.75 mm²	AWG 18 1 groove*	1 mm²	AWG 18 1 groove	1.5 mm²	AWG 16 2 grooves	2.5 mm²	AWG 14 3 grooves	3 mm²	AWG 12 wide groove	4 mm²	AWG 12 no groove
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Han E® , Crimp contact, Contact surface: Gold plated 	0,14 ... 0,37 0,5 0,75 1 1,5 2,5	09 33 000 6117 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223																			
Han E® , Crimp contact, Relay contact , Contact surface: Silver plated 	0,75 ... 1 1,5 2,5	09 33 000 6109 09 33 000 6110 09 33 000 6111																				

Series	Han® Q 2/0	Han® Q 2/0	Han® Q 3/0	Han® Q 5/0
Number of contacts	2 + ⊕	2 + ⊕	3 + ⊕	5 + ⊕
Termination	Axial screw terminal 	Crimp terminal 	Crimp terminal	Crimp terminal 
Rated current	40 A	40 A	40 A	16 A
Rated voltage	830 V	830 V	400 V	230 / 400 V
Wire gauge	4 ... 10 mm²	1.5 ... 10 mm²	1.5 ... 10 mm²	0.14 ... 2.5 mm²
Male insert (M)	09 12 002 2652	09 12 002 3052	09 12 003 3051	09 12 005 3001
Female insert (F)	09 12 002 2752	09 12 002 3152	09 12 003 3151	09 12 005 3101

Series	Han® Q 5/0 Quick Lock	Han® Q 7/0	Han® Q 12/0	
Number of contacts	5 + ⊕	7 + ⊕	12 + ⊕	
Termination	Quick Lock termination 	Crimp terminal 	Crimp termination/ Quick Lock termination 	
Rated current	16 A	10 A	10 A	
Rated voltage	230 / 400 V	400 V	400 V	
Wire gauge	0.5 ... 2.5 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	
Male insert (M)	09 12 005 2633	09 12 007 3001	09 12 012 3001	
Female insert (F)	09 12 005 2733	09 12 007 3101	09 12 012 3101	

Series	Han-Brid® RJ45 C	Han-Brid® RJ45 C	Han-Brid® RJ45 C	Han-Brid® RJ45 C
Number of contacts	2 / 8	2 / 8	2 / 8	2 / 8
Termination	Crimp terminal / RJ45 	Crimp terminal / RJ45 	Crimp terminal / RJ45 	Crimp terminal / RJ45 
Rated current	10 A	10 A	10 A	10 A
Rated voltage	24 V	24 V	24 V	24 V
Wire gauge	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²
Male insert (M)	09 12 003 3021	09 12 003 3031		
Female insert (F)			09 12 003 2774	09 12 003 2776

By using in Han-Yellock® 10 hoods/housings the seal on the insert has to be removed.