

Number of contacts

**21**



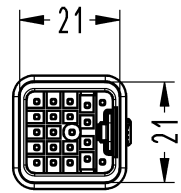
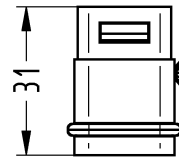
Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		

Crimp terminal  
Order crimp contacts separately

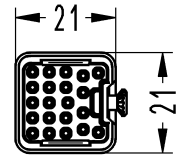
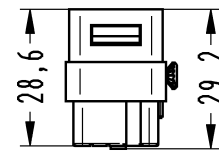
09 12 021 3001

09 12 021 3101

M



F



Identification	Part number	Drawing	Dimensions in mm
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Insertion / removal tool  
for D-Sub crimp contacts



09 99 000 0368

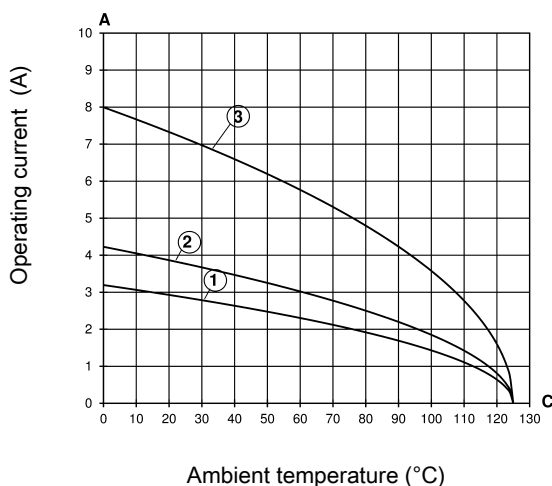
## Features

- Heavy duty connector for D-Sub signal contacts
- Suitable for all Han® 3 A hoods/housing types: Standard (metal, plastic), EMC, INOX, M and HPR
- High contact density at small foot print
- Easy handling of signal connectors in industrial environment
- One preleading contact

## 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 according to DIN EN 60 512-5



- ① wire gauge: 0.14 mm<sup>2</sup>      stamped contacts
- ② wire gauge: 0.25 mm<sup>2</sup>      stamped contacts
- ③ wire gauge: 0.5 mm<sup>2</sup>        turned contacts

## Technical characteristics

### Inserts

Number of contacts	21
Electrical data	
acc. to EN 61 984	<b>6.5 A ~50 V / -120 V 0.8 kV 3</b>
Rated current	6.5 A
Rated voltage AC	~50 V
Rated voltage DC	-120 V
Rated impulse voltage	0.8 kV
Pollution degree	3

Insulation resistance	≥ 10 <sup>10</sup> Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... 125 °C
Mechanical working life	
- mating cycles	according to performance level of used contacts

### Contacts

Material	copper alloy
Surface	
- selectively gold plated	according to performance level
Crimp termination	
- mm <sup>2</sup>	0.09 mm <sup>2</sup> ... 0.56 mm <sup>2</sup>
- AWG	28 ... 20

### Hoods/Housings

Detailed information and further hoods/housings types see catalog "Industrial Connectors Han®", chapter 31

#### Plastic hoods/housings

Material	polycarbonate
Flammability acc. to UL 94	V 0
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 67

#### Metal hoods/housings


Material	zinc die-cast
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 44 IP 67 is achieved with seal screw 09 20 000 9918

# Han® Q High Density Contacts



Contacts



Identification	Wire gauge (mm <sup>2</sup> )		Part number		Drawing	Dimensions in mm																			
	Male contact	Female contact																							
Individual contacts, turned Performance level 1 	0.09-0.25	09 67 000 7576	09 67 000 7476		<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>Ø*</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.09-0.25 mm<sup>2</sup></td> <td>AWG 28-24</td> <td>1.7</td> <td>4 mm</td> </tr> <tr> <td>0.13-0.33 mm<sup>2</sup></td> <td>AWG 26-22</td> <td>1.7</td> <td>4 mm</td> </tr> <tr> <td>0.25-0.52 mm<sup>2</sup></td> <td>AWG 24-20</td> <td>1.7</td> <td>4 mm</td> </tr> </tbody> </table>	Wire gauge		Ø*	Stripping length	0.09-0.25 mm <sup>2</sup>	AWG 28-24	1.7	4 mm	0.13-0.33 mm <sup>2</sup>	AWG 26-22	1.7	4 mm	0.25-0.52 mm <sup>2</sup>	AWG 24-20	1.7	4 mm	0.13-0.33	09 67 000 5576	09 67 000 5476	
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Individual contacts, stamped Performance level 1	0.09-0.25	09 67 000 7176	09 67 000 7276																						
	0.25-0.56	09 67 000 8176	09 67 000 8276																						
500 pieces/reel Performance level 1 Unrolling left	0.09-0.25	09 67 000 7166	09 67 000 7266																						
	0.25-0.56	09 67 000 8166	09 67 000 8266																						
10,000 pieces/reel Performance level 1 Unrolling left	0.09-0.25	09 67 000 7156	09 67 000 7256																						
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\*) Ø = max. isolation diameter