



DIN power female contacts - crimp



General information

Design	IEC 60603-2	for types: D, E, F, MH 21+4, F9, 2F, FM 21+24	
Contact resistance	max. 20mOhm		
Insulation resistance	min. 10GOhm min.		
Working current	see corresponding connector		
Temperature range	-55°C ... +125°C		
Insertion and withdrawal force	24pole max. 37N	32pole max. 50N	48pole max. 75N
Mating cycles	- PL1 acc. to IEC 60603-2 =>		500 mating cycles
	- PL2 acc. to IEC 60603-2 =>		400 mating cycles
UL file	E102079		
RoHS - compliant	Yes		
Leadfree	Yes		
Hot plugging	No		

Contact material

Contact material	Copper alloy
Plating termination zone	Ni
Plating contact zone	Au over PdNi over Ni

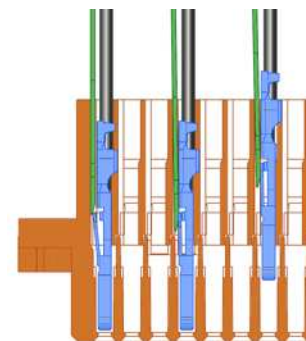
Installation of crimp contacts

Fitting the crimp contacts

After crimping the wires onto the contacts with the help of a crimping tool or an automatic crimping machine the contacts should be correctly oriented and inserted into the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 mm² an insertion tool is necessary.

Removing the crimp contacts

The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).

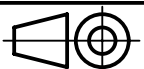


Dimensions and tensile strength*

Type	Wire gauge [mm ²]	AWG	Insulation Ø [mm]	Tensile strength [N]	stripping length [mm]
FC 1	0,09 - 0,25	28 - 24	0,7 - 1,5	11 - 28	3,5 +0,5
FC 2	0,14 - 0,56	26 - 20	0,8 - 2,0	15 - 60	3,5 +0,5
FC 3	0,5 - 1,5	20 - 16	1,6 - 2,8	60 - 135	3,5 +0,5

For the fabrication in line with the specification, please use exclusively crimp tools approved by HARTING (see DIN EN 60352-2) Insertion, removal and crimping tools see chapter 30 of the catalogue

*Extract from DIN IEC 60352-2, Amend. 2, table IV



All Dimensions in mm
Original Size DIN A4

Scale
1:1

Free size tol.

Ref.

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HARTING Electronics GmbH
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