DIN Signal female connector

RoHS compliant

General information

Design	IEC 60603-2		types: B, C, 2C, 3C female
No. of contacts	max. 96		
Contact spacing	2,54 mm		
Test voltage	1000V		
Contact resistance	max. 20mOhm		
Insulation resistance	min. 10^{12}Ohm		
Working current	2 A at 20°C (see derating diagram)		
Temperature range	-55°C ... +125°C		
Termination technology	crimp		
Clearance & creepage distance	min. 1,2 mm		
Insertion and withdrawal force	16pol. max. 15N	20pol. max. 20N	96pol. max. 90N
	30pol. max. 30N	32pol. max. 30N	
	48pol. max. 45N	64pol. max. 60N	
Mating cycles	- PL1 acc. to IEC 60603-2 =>		500 mating cycles
	- PL2 acc. to IEC 60603-2 =>		400 mating cycles
	- PL3 acc. to IEC 60603-2 =>		50 mating cycles
UL file	E102079		
RoHS - compliant	Yes		
Leadfree	Yes		
Hot plugging	No		

Insulator material

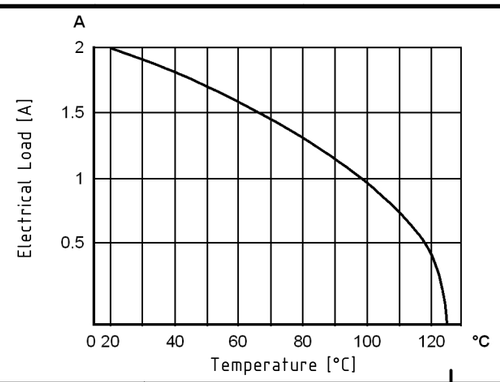
Material	PC (thermoplastics, glass fiber reinforcement 20%)
Colour	RAL 7032 (grey)
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	IIIa (175 ≤ CTI < 400)
NFF classification	I2, F1

Contact material

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

Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.
Control and test procedures according to DIN IEC 60512-5



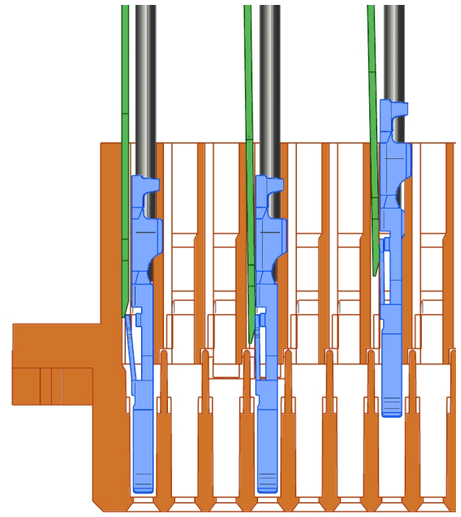
Installation of crimp contacts

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 mm^2 an insertion tool is necessary.

insertion tool part number: 09990000100

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).

removal tool part number: 09990000101



All Dimensions in mm
Original Size DIN A3

Scale 1:1 | Free size tol. | Ref. | Sub.

Department EL PD

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Created by	Inspected by	Standardisation	Date	State
STORCK	LEHNERT	HOFFMANN	2019-08-29	Final Release

Title: DIN Signal female connector

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Type: DS | Number: 09032100801 | Rev.: C | Page: 1/1

A3

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

HARTING:

09035963214 09020008444 09020008474 09020008484 09020643214 09030963214 09230483217 09020008434 09020006484 09020006474 09250303217 09030963217 09250303214