

Design

No. of contacts

Contact spacing

Test voltage

General information

DIN signal male connector



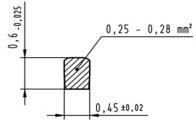
Soldering instructions

The connectors should be protected when being soldered in a dip, flow or film soldering baths. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.

(1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de). Cover the underside of the connector moulding and the adjacent parts of the pcb as well as the open sides of the connector. This will prevent heat and gases of the soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.

(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors from gas and heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts that should not be soldered.

Cross section of solder terminations



Date

08/06/11

08/06/11

Detail.

nspec.

Stand.

Name

HARTING Electronics GmbH & Co. KG

HARTING

mte

TD

Test voltage	1000		
Contact resistance	<u><</u> 20 mOhm		
Insulation resistance	≥ 10 ¹² Ohm		
Working current	max. 2 A@20°C (see derating diagram)		
Temperature range	-55℃ +125℃		
Termination technology	solder pins		
Clearance & creepage distance	min. 1,2 mm		
Insertion and withdrawal force	64pol. <u>≤</u> 60N		
	96pol. ≤ 90N		
	- PL1 acc. to IEC 60 603-2 => 500 mating cycles		
Mating cycles	- PL2 acc. to IEC 60 603-2 => 400 mating cycles		
	- PL3 acc. to IEC 60 603-2 => 50 mating cycles		
	- PL S4 surface treatment => min. 0,06µm Au over 0,7 ^{+0,2} µm PdNi		
UL file	E102079		
RoHS - compliant	Yes		
Leadfree	Yes		
Hot plugging	No		
Insulator material			
Material	PBT (thermoplastics, glass fiber reinforcement 30%)		
Color	RAL 7032 (grey)		
UL classification	UL 94-V0		
Material group acc. IEC 60664-1	IIIa (175 <u><</u> CTI < 400)		
NFF classification	I3, F4		
Contact material			
Contact material	Copper alloy		
Plating termination zone	Sn over Ni		
Plating contact zone	Au over PdNi over Ni		
Derating diagram acc. to IEC 60512-5 (Current of	carrying capacity)		
	Α		
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts includin terminals. The current capacity curve is valid for continuous, not interrupted current loaded contacts of connectors whe simultaneous power on all contacts is given, without exceedin the maximum temperature. Control and test procedures according to DIN IEC 60512-5	ng 1.5 on <u>E</u> <u>p</u>		

0 20

40

Temperature [℃]

60

80

100

120 °C

EC01482

Mod.

Date

Name

IEC 60603-2

max. 96 2,54 mm

1000V

types: B, C male

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Technical	data	sheet

DIN signal male connector

DS 09 03 120 02 03