

**General information** 

## DIN signal male connector



EC01482

Mod.

Date

Name

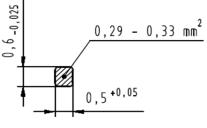
#### **Soldering instructions**

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

21/04/11

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Detail.

nspec.

Stand.

Name

HARTING Electronics GmbH & Co. KG

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Design	IEC 60603-2 types: B, 2B, 3B, C, 2C, 3C male
No. of contacts	max. 96
Contact spacing	2,54 mm
Test voltage	1000V
Contact resistance	<u>&lt; 20 mOhm</u>
Insulation resistance	≥ 10 <sup>12</sup> Ohm
Working current	max. 2 A@20°C (see derating diagram)
Temperature range	-55°C +125°C
Termination technology	solder pins
Clearance & creepage distance	min. 1,2 mm
	16pol. <u>≤</u> 15N 20pol. <u>≤</u> 20N
Insertion and withdrawal force	30pol. <u>≤</u> 30N 32pol. <u>≤</u> 30N
	48pol. ≤ 45N 64pol. ≤ 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 <sup>+0,2</sup> 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	Illa (175 <u>&lt;</u> CTI < 400)
NFF classification	I3, F4
	10,11
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 ca	arrving capacity)
	Α
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, nor	
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	
	0 20 40 60 80 100 120 ℃
	Temperature [°C]

Technical	data sheet	

DIN signal male connector

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