DIN Signal male connector

RoHS compliant

General information

Design	IEC 60603-2 types: C
No. of contacts	max. 96
Contact spacing	2,54mm
Test voltage	1000V
Contact resistance	max. 20mOhm
Insulation resistance	min. 10^{12}Ohm
Working current	1,5A at 20°C (see derating diagram)
Temperature range	-55°C ... +125°C
Termination technology	solder pins
Clearance & creepage distance	min. 1,2mm each
Insertion and withdrawal force	96-pole max. 90N
Mating cycles	PL 2 acc. to IEC 60603-2 400 mating cycles
UL file	E102079
RoHS - compliant	Yes
Leadfree	Yes
Hot plugging	No

Insulator material

Material	PBT (thermoplastics, glass fiber reinforcement 30%)
Colour	RAL 7032 (grey)
Material group acc. IEC 60664-1	IIIa (175 ≤ CTI < 400)

Contact material

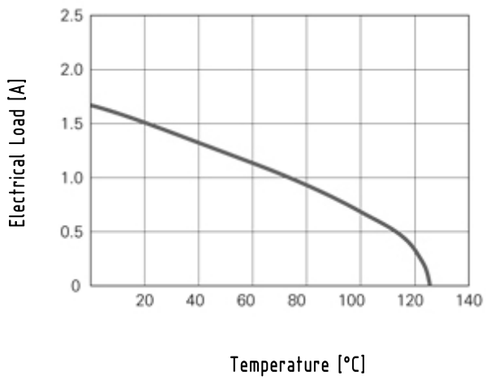
Contact material	Copper alloy
Plating termination zone	Sn over Ni
Plating contact zone	Au over NiP over Ni

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



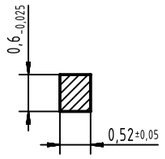
Soldering instructions

SMC (Surface Mount Compatible) connectors are designed to be used in a reflow oven together with other SMD (Surface Mount Device) components. In this process, called as well „Pin in Hole Intrusive Reflow", the connectors are inserted into plated through holes in a comparable way to conventional component mounting.
All other components can be assembled on the pcb surface.

The length of the connector contacts should be such that they protrude by no more than 1.5 millimetres after insertion to the pcb. Each contact collects solder on its tip as it penetrates the solder paste in the hole. So if the contact is too long, this solder would no longer be able to reflow back into the plated through hole by capillary action during the soldering process, therefore the quality of the soldered connection would suffer as a result.

Cross section of solder pins

A= 0,27mm² - 0,34mm²



All Dimensions in mm
Original Size DIN A3

Scale 1:1

Free size tol.

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Department EC PD - DE

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A3

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