



DIN signal female connector angled

RoHS compliant

General information

Design	IEC 60603-2	types: Q, 2Q, R, 2R female
No. of contacts	max. 96	
Contact spacing	2,54 mm	
Test voltage	1000V	
Contact resistance	max. 20mOhm	
Insulation resistance	min. 10 ¹⁰ Ohm	
Working current	2A at 20°C (see derating diagram)	
Temperature range	-55°C ... +125°C	
Termination technology	solder pins	
Clearance & creepage distance	min. 1,2mm each	
	16pole max. 15N	20pole max. 20N
Insertion and withdrawal force	30pole max. 30N	32pole max. 30N
	48pole max. 45N	64pole max. 60N
	PL 1 acc. to IEC 60603-2	500 mating cycles
Mating cycles	PL 2 acc. to IEC 60603-2	400 mating cycles
	PL 3 acc. to IEC 60603-2	50 mating cycles
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 \leq CTI < 400)
NFF classification	I3, F4

Contact material

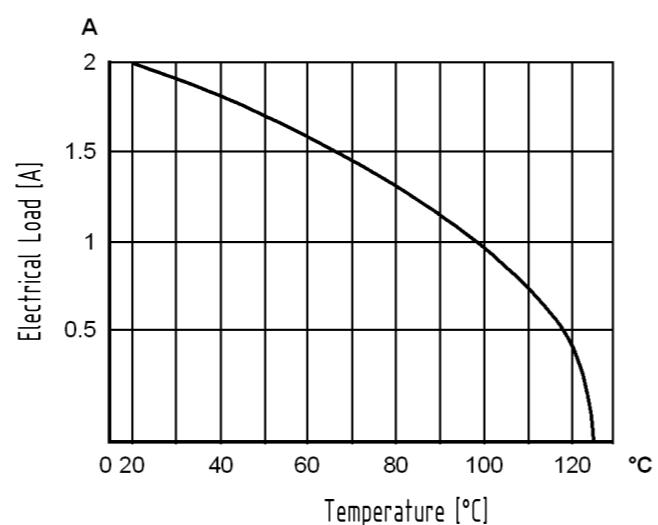
Contact material	Copper alloy
Plating termination zone	Sn over Ni
Plating contact zone	Au over Ni

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

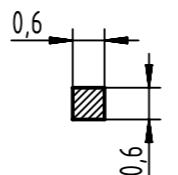


Assembly and soldering instructions

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



	All Dimensions in mm Original Size DIN A3	Scale	Free size tol.		Ref. Sub. DS 09 73 220 02 02 Mod. EC01482 2011-04-29
		1:1			
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