



DIN power male connector



General information

Design	IEC 60603-2	types: MH 24+7, 21+5 male
No. of contacts	Signal: 21 or 24	Power: 5 or 7
Contact spacing	2,54 mm x 5,08 mm	
Test voltage	Signal: 1550V	Power: 3100V
Contact resistance	Signal: max. 15mOhm	Power: max. 8mOhm
Insulation resistance	min. 10 ¹⁰ Ohm	
Working current	Signal: 6A at 20°C	Power: 15A at 20°C
Temperature range	-55°C ... +125°C	
Termination technology	solder pins, faston	
Clearance	Signal: min. 1,6 mm	Power: min. 4,5 mm
Creepage	Signal: min. 3,0 mm	Power: min. 8,0 mm
Insertion and withdrawal force	max. 85N	
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	PBT (thermoplastics, glass fiber reinforcement 30%)	
Colour	RAL 7032 (grey)	
UL classification	UL 94-V0	
Material group acc. to IEC 60664-1	IIIa (175 ≤ CTI < 400)	
NFF classification	I3, F4	

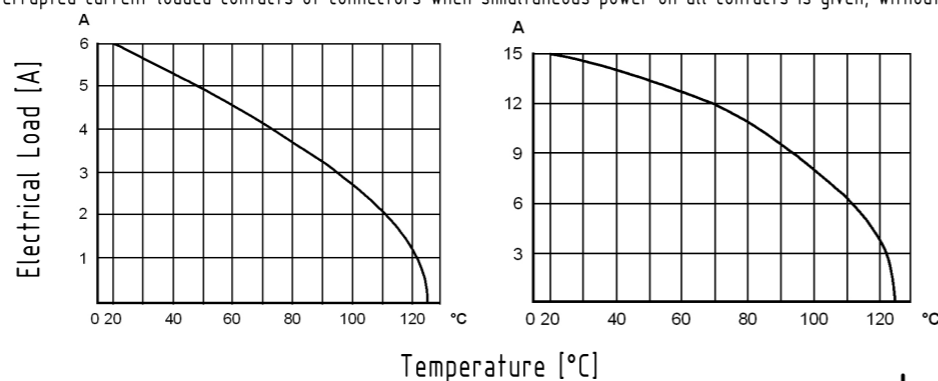
Contact material

Contact material	Copper alloy	
Plating termination zone	Signal: Sn over Ni	Power: Sn over Ag over Ni
Plating contact zone	Signal (solder): female Au over Ni, male Au over PdNi over Ni	Power: Ag over Ni
	Signal (wire wrap, solder lug): 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



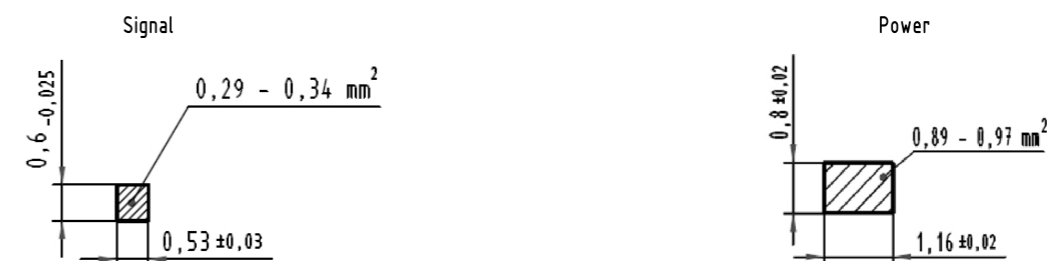
Soldering instructions

The connectors should be protected when being soldered in a dip, flow or film soldering bath. 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 pins



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