

DIN power male connector







General information			
Design	IEC 60603-2 types: D	F male	
No. of contacts	max. 48	, 2	
Contact spacing	5,08 mm (2,54 mm or	5,08 mm on termination side for type E angled)	
Test voltage	1550V	71 0 7	
Contact resistance	≤ 15 mOhm		
Insulation resistance	≥ 10 ¹² Ohm		
Working current	6 A@20℃ (see derating diagram)		
Temperature range	-55℃ +125℃		
Termination technology	solder pins		
Clearance	min. 3,0 mm (min. 1,6 mm	n for 2,54 mm contact spacing at type E angled)	
Creepage	min. 3,0 mm		
Insertion and withdrawal force	32pol. ≤ 50N		
insertion and withdrawar force	48pol. ≤ 75N		
	- 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	
UL file	E102079		
RoHS - compliant	Yes		
Leadfree	Yes		
Hot plugging	No		

oplastics, glass fiber reinforcement 30%)
grey)
TI < 400)
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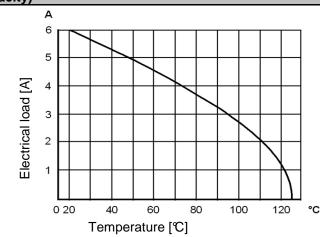
Contact material				
Contact material	Copper alloy			
Plating termination zone	Sn over Ni			
Plating contact zone	Au over PdNi over Ni			

Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including

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

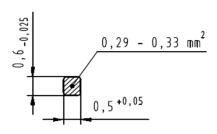


Soldering instructions

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



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			Detail.	28/04/11	mte	HARTING
			Inspec.	28/04/11	TD	HARTING
EC01557			Stand.			
Mod.	Date	Name	HARTING Electronics GmbH & Co. KG			

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Technical data sheet DIN power male connector DS 09 04 100 02 01