



DIN signal male connector with special contacts







General information					
Design	IEC 60603-2 types: M	male			
No. of contacts	78+2, 60+4, 42+6, 24+8, 6+10				
Contact spacing	2,54 mm for signal contacts 7,62 mm for special contacts				
Test voltage	1000V				
Contact resistance	≤ 20 mOhm				
Insulation resistance	≥ 10 ¹² Ohm				
Working current	2 A@20℃ (see derating diagram) for signal contacts				
	for special contacts refer to corresp	onding data sheet			
Temperature range	-55℃ +125℃				
Termination technology signal contacts	solder pins				
Clearance & creepage distance	min. 1,2 mm				
Insertion and withdrawal force	6pol. ≤ 6N 78pol. ≤ 74N				
without special contacts	24pol. ≤ 23N 60pol. ≤ 57N				
	42pol. ≤ 40N				
Mating cycles	- PL1 acc. to IEC 60 603-2 =>	500 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				

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 <u><</u> CTI < 400)			
NFF classification	13, F4			

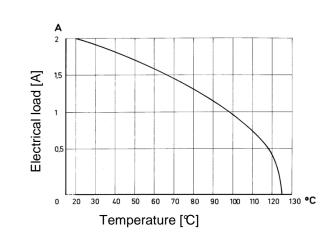
Contact material		
Contact material	Copper alloy	
Plating termination zone signal contacts	Sn over Ni	
Plating contact zone signal contacts	Au over PdNi over Ni	

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

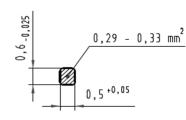


Assembly and soldering instructions

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



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EC01482			Stand.			
Mod.	Date	Name	HARTING Electronics GmbH & Co. KG			

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Technical data sheet DIN signal male connector with special contacts