



## DIN signal female connector angled - SMC







IEC 60603-2 types: R t	female
max. 96	
2,54 mm	
1000V	
≤ 20 mOhm	
≥ 10 <sup>12</sup> Ohm	
2 A@20℃ (see derating diagram)	
-55℃ +125℃	
max. 15s at 240℃ for reflow solderi	ing
SMC (Surface Mount Compatible) v	vith solder pins
min. 1,2 mm each	
32pol. ≤ 30N	
64pol. ≤ 60N	
96pol. ≤ 90N	
- 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
E102079	
Yes	
Yes	
No	
	max. 96  2,54 mm  1000V  ≤ 20 mOhm  ≥ 10 <sup>12</sup> Ohm  2 A@20°C (see derating diagram)  -55°C +125°C  max. 15s at 240°C for reflow solder  SMC (Surface Mount Compatible) v  min. 1,2 mm each  32pol. ≤ 30N  64pol. ≤ 60N  96pol. ≤ 90N  - PL1 acc. to IEC 60 603-2 =>  - PL2 acc. to IEC 60 603-2 =>  - PL3 acc. to IEC 60 603-2 =>  E102079  Yes  Yes

Insulator material				
Material	PCT (thermoplastics, glass fiber reinforcement 30%)			
Color	natural-colored, color deviations and speckles permitted			
UL classification	UL 94-V0			
Material group acc. IEC 60664-1	II (400 <u>&lt;</u> CTI < 600)			
NFF classification	13, F3			

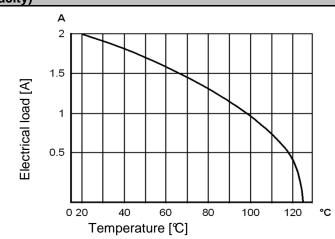
Contact material		
Contact material	Copper alloy	
Plating termination zone	Sn over Ni	
Plating contact zone	Au over Ni	

## 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

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

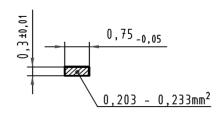


## **Assembly and soldering instructions**

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**



				Date	Name	8
			Detail.	29/04/11	mte	HARTING
			Inspec.	29/04/11	TD	HARTING
EC01482			Stand.			
Mod.	Date	Name	HARTING Electronics GmbH & Co. KG			

HARTING
HARTING
mbll 0 Ca I/C

Technical data sheet DIN signal female connector angled - SMC

DS 09 73 223 02 01