



DIN Signal female connector



General information

Design	IEC 60603-2, types: B, C, 2B, 2C		
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	1,5A at 20°C (see derating diagram)		
Temperature range	-55°C ... +125°C		
Termination technology	solder lugs, press-in, wirewrap		
Clearance & creepage distance	min. 1,2 mm each		
Insertion and withdrawal force	32-pole max. 30N	64-pole max. 60N	96-pole max. 90N
Mating cycles	PL 1 acc. to IEC 60603-2	500 mating cycles	
	PL 2 acc. to IEC 60603-2	400 mating cycles	
	PL 3 acc. to IEC 60603-2	50 mating cycles	
RoHS - compliant	Yes		
Leadfree	Yes		
Hot plugging	No		

Insulator material

Material	PBT (thermoplastics, glass fiber reinforcement)
Color	RAL 7032 (grey)
UL classification	UL 94-V0
Material group acc. IEC 60664-1	IIIa (175 < CTI < 400)

Contact material

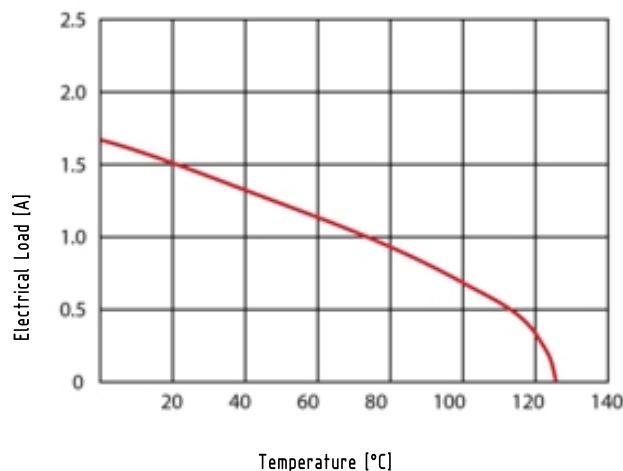
Contact material	Copper alloy
Plating termination zone solder lugs	Sn
Plating termination zone press-in	Sn
Plating Wire wrap zone	Sn
Plating contact zone I	Au over Ni

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.

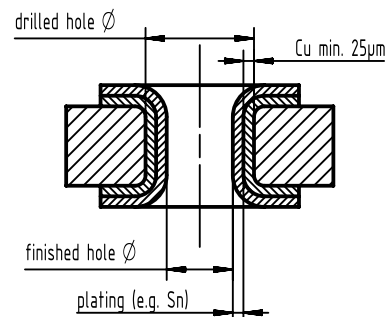
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5



Recommended configuration of plated through holes for press-in termination

In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties - such as mechanical strength and coefficient of friction - we recommend the following configuration of PCB through holes.

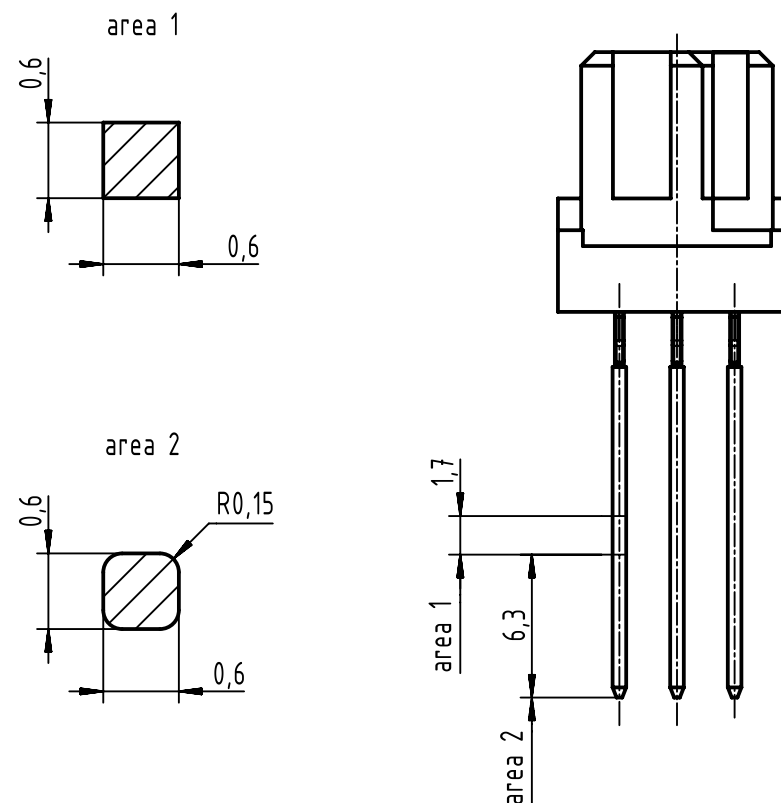


Tin plated PCB (HAL) acc. to EN 60352-5	Drilled hole Ø	1,15±0,025 mm
	Sn	max. 15 µm
	plated hole Ø	0,94 - 1,09 mm
Chemical tin plated PCB	Drilled hole Ø	1,15±0,025 mm
	Sn	min. 0,8µm
	plated hole Ø	1,00 - 1,10 mm
Gold /Nickel plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ni	3 - 7 µm
	Au	0,05 - 0,12 µm
	plated hole Ø	1,00 - 1,10 mm
Silver plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ag	0,1 - 0,3 µm
	plated hole Ø	1,00 - 1,10 mm
Copper plated PCB (OSP)	Drilled hole Ø	1,15±0,025 mm
	plated hole Ø	1,00 - 1,10 mm

Assembly instructions

It is highly recommended to use HARTING press-in tools to ensure a reliable press-in process. Please refer to the catalogue for tools, machines and further information about the press-in process.

Cross section of wire wrap pins



All Dimensions in mm
Original Size DIN A3

Scale
1:1

Free size tol.

Ref.

Sub.



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Department EC PD - DE

Created by
STORCK

Inspected by
LEHNERT

Standardisation
HOFFMANN

Date
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State
Final Release

Title
DIN Signal female connector

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500000114120

HARTING Electronics GmbH

D-32339 Espelkamp

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DS

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