



Soldering instructions

Design	complementary IEC 60603-2	type: B, 2B, C, 2C, M male
No. of contacts	max. 96	
Contact spacing	2,54mm	
Test voltage	1000V	
Contact resistance	max. 20mOhm	
Insulation resistance	min. 10 ¹⁰ Ohm	
Working current	max. 2 A at 20°C (see derating diagram)	
Temperature range	-55°C ... +125°C	
Termination technology	solder pins	
Clearance & creepage distance	min. 1,2 mm	

UL file	-
RoHS - compliant	Yes
Leadfree	Yes
Hot plugging	No

Material	PA (Polyamid, glass fiber reinforcement 25%)
Colour	RAL 7035 (light grey)
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	II ($400 \leq CTI < 600$)
NFF classification	I2, F1

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

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

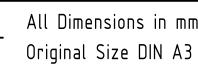
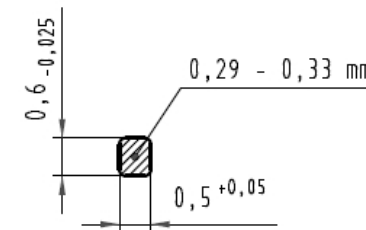
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

A graph showing the relationship between Electrical Load [A] (Y-axis) and Temperature [°C] (X-axis) for a 100W incandescent lamp. The Y-axis ranges from 0 to 2.0 A, and the X-axis ranges from 0 to 130°C. The curve starts at 2.0 A at 20°C and decreases to 0 A at 130°C.

Temperature [°C]	Electrical Load [A]
20	2.0
40	1.8
60	1.6
80	1.4
100	1.0
120	0.5
130	0.0

(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.

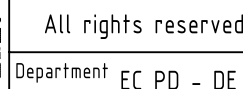
Cross section of solder pins

Scale
1:1

	Free size tol.
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Ref.

Sub. DS 09 03 122 02 01 / EC04252 / 27.04.2011



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HAGEMEYERE

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TADJE

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HOFFMANN

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Final Release

HARTING Electronics GmbH
D-32339 Espelkamp

Title DIN signal male connector - NFF

Type DS

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