Г	1	2 3 4	5 6
			Low currents and voltages
А		N Power female low profile – NFF	Rons Type H standard contacts have a silver plated surface. This precious metal has surface generates a black oxide layer due to its affinity to sulphur. This layer unmated, thus guaranteeing very low contact resistances. In the case of very lo
	General information		encountered. In systems where such a change to the transmitted signal could le recommend the use of gold plated contacts. Below is a table derived from actual experiences.
	Decise	complementary to IEC 60603-2, type: H female low profile	
	_ <u>Design</u> No. of contacts		
	Contact spacing	5,08mm / 10,16mm between the rows	
	Test voltage	3100V	Silver
	Contact resistance	max. 8mOhm	5 V
В	Insulation resistance Working current	min. 10"Ohm 15A at 20°C (see derating diagram)	Gold
	Temperature range	-55°C +125°C	
	Termination technology	solder	5 mA
	Clearance	min. 4,5mm	
	Сгеераде	min. 8,0mm	Soldering instructions
	Insertion and withdrawal force	15-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	The connectors should be protected when being soldered in a dip, flow or film s operations or deformed as a result of overheating.
		PL 3 acc. to IEC 60603-2 400 mating cycles	(1) For prototypes and short runs protect the connectors with an industrial adh
	UL file	E102079	moulding and the adjacent parts of the pcb as well as the open sides of the co
	RoHS – compliant	Yes	the connector. About 140 + 5 mm of the tape should suffice.
C	Hot plugging	No	(2) For large series a jig is recommended. Its protective cover with a fast action the soldering apparatus. As an additional protection a foil can be used for cover
			The soluening apparatus. As an additional profection a for can be used for cove
			Cross section of solder pins
	Insulator material		
			0,9mm²
	Material	PA (thermoplastics, glass fiber reinforcement 25%)	
	Color UL classification	RAL 7035 (light grey) UL 94-V0	
	Material group acc. IEC 60664-1	UL 94-VU II (400 < CTI < 600)	
	NFF classification	I2, F1	<u>1,13±0.02</u>
			0 0
	Contact material		
	Contact material	Copper alloy	
	Plating termination zone	Sn over Ni	
	Plating contact zone	Ag over Ni or Au over Ni	
	Derating diagram acc. to IEC 60512-5 (urrent carrying capacity)	
Е	The current carrying canacity is	s limited by maximum temperature A	
	of materials for inserts and co	ntacts including terminals.	
	The current capacity curve is v	alid for continuous, non	
	interrupted current loaded cont	arts of connectors when	
	simultaneous power on all cont the maximum temperature.	acts is given, without exceeding	
			All Dimensions in mm Scale Free size tol.
	Control and test procedures ac		Original Size DIN A3 1:1
			All rights reserved Created by Inspected by ELLERMANN
			Department EC PD - DE
F			DIN Power female low
		0 20 40 60 80 100	120 °C HARTING Electronics GmbH
		Temperature [°C]	D-32339 Espelkamp Type DS Number 0906
	·		

7		8	
		-	-
s excellent conductive properties. r is smooth and very thin and is p low currents or voltages small cha ead to faulty functions and also in	artly interrupted wher anges to the transmitt	n the contacts are mated and ed signal may be	A
			В
soldering baths. Otherwise, they m hesive tape, e.g. Tesaband 4331 (w onnector. This will prevent heat ar on mechanical locking device shields ering the parts that should not be	ww.tesa.de). Cover the nd gases of the solder s the connectors from	e underside of the connector ring apparatus from damaging	
			D
			E
y Standardisation SCHREIER	Ref. Sub. DS 09062120201 / EC Date 2013-05-02	01557 / 28.04.2011 State Final Release	
w profile - NFF	<u></u>	Doc-Key / ECM-Nr. 100535935/UGD/001/A 50000060919	F
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