ſ	1	2	3	4		5 6 7 8
	HARTING DIN DO	ower male connector	– NFF	RoHS compliant	9. Lus	Soldering instructions
А				compliant g		The connectors should be protected when being soldered in a dip, flow or film soldering bath. Otherwise, they might become
ľ						contaminated as a result of soldering operations or deformed as a result of overheating.
	General information		:			(1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de).
	Design	IEC 60603-2	types: D, E male			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
	No. of contacts	max. 48				suffice.
	Contact spacing	5,08 mm	(2,54 mm or 5,08 mm or	n termination side for type	E angled)	(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors
	Test voltage	1550V				from gas and heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts
R	Contact resistance Insulation resistance	max. 15mOhm min. 10"Ohm				that should not be soldered.
1	Working current	max. 6 A at 20°C (see derating diac	(חביו			Cross section of solder pins
	Temperature range	-55°C +125°C	<i>i</i>			
	Termination technology	solder pins	· · · · · · · · · · · · · · · · · · ·			
	Clearance	min. 3,0 mm	(min. 1,6 mm for 2,54 m	m contact spacing at type f	E angled)	
┨	Сгеераде	min. 3,0 mm				0,29 - 0,33 mm ²
	Insertion and withdrawal forc	ce 32pol. max. 50N 48pol. max. 75N				
		- PL1 acc. to IEC 60 603-2 =>	500 mating cycles			0,5+0,05
	Mating cycles	- PL2 acc. to IEC 60 603-2 =>	400 mating cycles			
c	5,7	- PL3 acc. to IEC 60 603-2 =>	50 mating cycles			
	UL file	E102079				
	RoHS – compliant	Yes				_
	Leadfree	Yes				_
	Hot plugging -	No				—
	Insulator material	: ;				—
	Material	PA (Polyamid, glass fiber reinforcer	nent 25%)			
	Colour	RAL 7035 (light grey)				
ן ס	UL classification Material group acc. to IEC 600	UL 94-V0 664-1 II (400 <u><</u> CTI < 600)				_
	NFF classification	12, F1				—
						—
	Contact material		:			_ _
	Contact material	Copper alloy				
	Plating termination zone	Sn over Ni				_
	Plating contact zone	Au over PdNi over Ni				—
E	Derating diagram acc. to IEC	60512-5 (Current carrying capacity)				
	The current carrying capacity	y is limited by maximum				
	temperature of materials for terminals.	r inserts and contacts including	5			
	The current capacity curve is					
\neg	interrupted current loaded co simultaneous power on all co	ontacts of connectors when ontacts is given, without exceeding	[V] 4			All Dimensions in mm Scale Free size tol. Ref.
	the maximum temperature.	<u>-</u> ,		++N++		Sug. US V9 04 102 02 01 / 20.04.2011
	Control and test procedures	according to DIN IEC 60512-5		$+++\times+$		All rights reserved Created by Inspected by Standardisation Date State HAGEMEYERE TADJE HOFFMANN 2014-08-11 Final Release
						Department of DD DD
F						DIN power male connector - NFF
			0 20 40 60 Ten	80 100 120 nperature [°C]	°C	
L	1	2	3			D-32339 Espelkamp US 07041020201 A 1/1 5 6 7 8
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