1	2 3	4	5	6	†	8	
HARTING	DIN power female connector RoHS/.FU			Soldering instructions			
DIN POWEL LEMINICA COMMITTEE COMPLIANT COMPLIANT			The connectors should be protected when being soldered in a dip, flow or film soldering bath. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.				
General information			(1) For prototypes and shor	rt runs protect the connectors with a	an industrial adhesive tape, e.g. Tesab	pand 4331 (www.tesa.de). Cover the undersi	
Design	IEC 60603-2	types: F, F9 female	of the connector moulding soldering apparatus from d	and the adjacent parts of the pcb as amaging the connector. About 140 + 5	well as the open sides of the conner 5 mm of the tape should suffice.	ctor. This will prevent heat and gases of	
No. of contacts	max. 48		(2) For large series a iin is	recommended Its protective cover w	ith a fast action mechanical locking d	levice shields the connectors from gas and	
Contact spacing	5,08 mm	3,81mm between rows				ng the parts that should not be soldered.	
Test voltage	1550V contact/contact	2500V contact/ground	— I <u> </u>				
Contact resistance	max. 15 mOhm for wirewrap and solder	2300V Contact/ ground	Cross section of solder pin	S	Cross section o	f wirewrap posts	
Insulation resistance	min. 10º20hm			1			
			$-$ \sim	†	1		
Working current	6A at 20°C (see derating diagram)		0,8-0,03	 		-	
Temperature range	-55°C +125°C	-		Ī	777	1 	
Termination technology	solder pins, soldering eye, wirewrap, crimp				<i>\//</i>	√ - I	
Clearance	min. 1,6 mm				<u> </u>	<u> </u>	
Creepage	min. 3,0 mm			-	<u> </u>		
Inconting and withdrawal factor	24-pole max. 37N 32-pole max. 50N		Installation of crimp contac	ts			
Insertion and withdrawal force	45-pole max. 70N 48-pole max. 75N						
	- PL1 acc. to IEC 60603-2 =>	500 mating cycles	Fitting the crimp contacts	A. H 1	-11 41		
Mating cycles	- PL2 acc. to IEC 60603-2 =>	400 mating cycles	automatic crimping the wires or	After crimping the wires onto the contacts with the help of a crimping tool or an automatic crimping machine the contacts should be correctly oriented and inserted		111 111 111	
	- PL3 acc. to IEC 60603-2 =>	50 mating cycles	into the cavities of the cor	nnector moulding in the required confi	iguration. They		
UL file	E102079		snap into position and are	firmly held in place. A light pull on t	he wire assures		
RoHS - compliant	Yes		the correct tensile strengt	h of the contact. When using strande	ed wires with a		
Leadfree	Yes		gauge below 0.37 mm² an in	iseriion tool is necessary.			
			Removing the crimp contact				
Hot plugging	No		The removal tool is inserte	d into a slot on the side of the resp contact retaining spring therefore tl			
Insulator material		:	then be easily withdrawn u	sing a light pull on the wire. This act	ion will cause no		
				e which can be repositioned/refitted a crimp removal procedure (max. 5x).	as necessary. The		
Material	PBT (thermoplastics, glass fiber reinforcement 30%)		Graming demonstrates tille t				
Colour	RAL 7032 (grey)						
UL classification	UL 94-V0						
Material group acc. to IEC 60664-1	IIIa (175 <u><</u> CTI < 400)		—				
NFF classification			—[
NFF classification	13, F4		—				
Contact material			<u>-</u>				
Contact material	Copper alloy		—				
Plating termination zone	Sn over Ni for solder, Ni for wirewrap and crimp		_				
-	Au over Ni	crimp PL1: Au over PdNi over Ni	_				
Plating contact zone		crimp PL2: Au over Ni					
Derating diagram acc. to IEC 60512-5 (Cur	rent carrying capacity)		-				
The current co-mine co-mits of the first of	us maximum tomporature of materials for the state of the	A					
The current carrying capacity is limited bincluding terminals.	y maximum temperature of materials for inserts and contacts	6					
The current capacity curve is valid for co	ontinuous, non interrupted current loaded contacts of connectors	₹ 5					
	is given, without exceeding the maximum temperature.	<u> </u>					
Control and test procedures according to	. DIN IFC 60512_5	Pe 4	All Dimension			Ref.	
common and rear procedures according to	5.11 IEC 0051E 5		Original Siz	e DIN A3 1:1		Sub. DS 09 06 210 00 01 / EC01557 / 28.04.2011	
		₩ 2	All rights re		pected by Standardisation	Date State	
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				Title DIN power fem	ale connector	100581033/UG 50000076069	
		0 20 40 60 80 100 120	HARTING Electronics GmbH			Rev. A	
		Temperature [°C]	D-32339 Espelkamp	Type DS Number	09062100001	l vev.	
		<u> </u>	' '	1			
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