	-	3 4	5 6 7 8	
HARTING	IIN power male c	onnector - SMC Rott	Soldering instructions Soldering instructions	
			The connectors should be protected when being soldered in a dip, flow or film soldering baths. Otherwise, they might become 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). 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 to soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.	
Design	IEC 60603-2	types: F male	(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors from gas and	
No. of contacts	max. 48		heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts that should not be soldered.	
Contact spacing	5,08 mm			
Test voltage	1550V contact/contact	2500V contact/ground	Quantity of solder paste	
Contact resistance	max. 15m0hm			
Insulation resistance	min. 10 ¹² 0hm		Before the components are assembled, solder paste must be applied to all the solder pads (for connecting surface-mount components) and the	
Working current	max. 6A at 20°C (see derating diagram		plated through holes.	
Temperature range			To ensure that the plated through holes are completely filled, significantly more solder paste must be applied than traditional solder pads on the	
Termination technology	SMC (Surface Mount Compatible) with	solder pins	pcb surface. There are numerous calculation methods available which are complicated to apply. The following rule of thumb has proved valuable practice:	
Clearance	min. 1,6 mm		`	
Creepage	min. 3,0 mm		VPaste = 2(VH - VP) in which:	
Insertion and withdrawal force	75N		In which: VPaste = Required volume of solder paste	
	- PL1 acc. to IEC 60603-2 =>	500 mating cycles	VH = Volume of the plated through hole	
Mating cycles	- PL2 acc. to IEC 60603-2 =>	400 mating cycles	VP = Volume of the connector termination in the hole	
	- PL3 acc. to IEC 60603-2 =>	50 mating cycles	Comment: the multiplier "2" compensates for solder paste shrinkage during soldering. For this purpose, it was assumed that 50 % of the paste	
UL file	E102079		consists of the actual solder, the other 50 % being soldering aids.	
RoHS - compliant	Yes		Construction of cultimates	
Leadfree	Yes		Cross section of solder pins	
Hot plugging	No			
			0,29 - 0,34 mm ²	
Insulator material				
M 1 - 1 1	DET (II)	1,200/	• /	
Material	PCT (thermoplastics, glass fiber reinf			
Colour	natural-colored, color deviations and	speckles permitted	 	
UL classification	UL 94-V0		0,53±0,03	
Material group acc. to IEC 60664-1	II (400 <u><</u> CTI < 600)			
NFF classification	13, F3			
Contact material				
Contact material	Copper alley			
	Copper alloy Sn over Ni			
Plating termination zone Plating contact zone	Au over PdNi over Ni			
rearing contact Zone	AU OVEL FUNI OVEL INI			
Derating diagram acc. to IEC 60512-5 (Curr	nt carrying capacity)			
The current carrying capacity is limited by		A		
temperature of materials for inserts and c terminals.	ontacts including	- 6 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	7 	
The current capacity curve is valid for con	inuous, non	= 5	- 	
interrupted current loaded contacts of con	ectors when	[A] beol 4		
simultaneous power on all contacts is given the maximum temperature.	, williour exceeding		All Dimensions in mm Scale Free size tol. Original Size DIN A3 1:1 Ref. Sub. DS 09 06 123 07 01 / EC04319 / 24 01.2012	
the maximum temperature. Control and test procedures according to DIN IEC 60512-5				
commot and rest procedures according to L	IN IEC DV312-3		All rights reserved Created by Inspected by Standardisation Date State	
		" - II	HAGEMEYERE TADJE HOFFMANN 2014-09-12 Final Release	
		1	Title DIN power male connector - SMC Doc-Key / E 100580651/UGI 500000076069	
			TIANTING ELECTIONICS GIIDH	
			Type DC Number 000€1220201 Rev. A	
		Temperature [°C]	D-32339 Espelkamp	
	2	3 4	5 6 7 8	

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