	2	3 4		5	6		f		8
HARTING	DIN power male connector RoHS/cFILes			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 sho	rt runs protect the connectors wi	th an industrial adhesive ta	ipe, e.g. Tesaband 4331	(www.tesa.de). Co	ver the underside
				of the connector moulding soldering apparatus from a	and the adjacent parts of the pcb lamaging the connector. About 140	as well as the open sides + 5 mm of the tape should	of the connector. This suffice.	will prevent heat	and gases of the
Design	IEC 60603-2	types: F male			s recommended. Its protective cove			olds the connector	es from ans and
No. of contacts	max. 48			heat generated by the sol	dering apparatus. As an additional	protection a foil can be us	ed for covering the par	rts that should no	ot be soldered.
Contact spacing	5,08 mm	2500//							
Test voltage Contact resistance	1550V contact/contact max. 15mOhm	2500V contact/ground		Cross section of solder pi	1S				
Insulation resistance	min. 10120hm			ام	,				
Working current	max. 6A at 20°C (see derating diagram)			0,29	- 0,34 mm ²				
Temperature range	-55°C +125°C		,	0,6					
Termination technology	solder pins			1 1 1/2/ 1					
Clearance	min. 1,6 mm				0.5				
Creepage	min. 3,0 mm			0,53±0,	<u> </u>				
Insertion and withdrawal force	32-pole max. 50N								
	48-pole max. 75N								
Mating cycles	- PL1 acc. to IEC 60603-2 =>	500 mating cycles							
	- PL2 acc. to IEC 60603-2 =>	400 mating cycles							
10. 69	- PL3 acc. to IEC 60603-2 =>	50 mating cycles							
UL file	E102079								
RoHS - compliant Leadfree	Yes Yes								
	No Yes								
Hot plugging •	110			-					
Insulator material									
Material	PBT (thermoplastics, glass fiber reinfor	cement 30%)							
Colour	RAL 7032 (grey)								
UL classification	UL 94-V0								
M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	III /475 CTL (00)			I					
Material group acc. to IEC 60664-1	IIIa (175 <u><</u> CTI < 400)			·					
Material group acc. to IEC 60664-1 NFF classification	IIIa (175 <u><</u> CTI < 400) 13, F4								
NFF classification									
NFF classification Contact material	13, F4								
NFF classification Contact material Contact material	Copper alloy			•					
NFF classification Contact material Contact material Plating termination zone Plating contact zone	Copper alloy Sn over Ni Au over PdNi over Ni								
NFF classification Contact material Contact material Plating termination zone	Copper alloy Sn over Ni Au over PdNi over Ni	A							
NFF classification Contact material Contact material Plating termination zone Plating contact zone	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity)	6							
NFF classification Contact material Contact material Plating termination zone Plating contact zone Denating diagram acc. to IEC 60512-5 (Curron temperature of materials for inserts and contemporations)	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including	6 5							
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Curron termination) The current carrying capacity is limited by temperature of materials for inserts and contact terminals. The current capacity curve is valid for contineering terminated to contacts of contineering terminated t	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including thinuous, non enectors when	6 5		All Dimens	ions in mm Scale Free size	: tol.	Ref.		
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts according to the current capacity curve is valid for continuity interrupted current loaded contacts of consimultaneous power on all contacts is given	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including thinuous, non enectors when	6 [V] pe 4 [V]		All Dimens		: tol.		S 09 06 120 02 01 / EC04:	319 / 24.01.2012
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts are consimultaneous power on all contacts is given the maximum temperature.	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including stinuous, non enectors when n, without exceeding	6 [V] pe 4 [V]			ze DIN A3 1:1 eserved Created by	Inspected by Stand	Sub. DS dardisation Date	Sta	ate
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts according to the current capacity curve is valid for continuity interrupted current loaded contacts of consimultaneous power on all contacts is given	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including stinuous, non enectors when n, without exceeding	6 [V] pe 4 [V]		All rights r	ze DIN A3 1:1 eserved Created by HAGFMEYERF		Sub. DS dardisation Date	Sta	ate nal Release
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts are consimultaneous power on all contacts is given the maximum temperature.	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including stinuous, non enectors when n, without exceeding	6 5		All rights r	ze DIN A3 1:1 eserved Created by HAGEMEYERE	Inspected by Stand TADJE HOFFI	Sub. DS dardisation Date	Sta	ate nal Release Doc-Key / ECM
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts are consimultaneous power on all contacts is given the maximum temperature.	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including stinuous, non enectors when n, without exceeding	Electrical Load [A]		All rights r	ze DIN A3 1:1 eserved Created by HAGEMEYERE D - DE Title DIN power r	Inspected by Stand TADJE HOFFI	Sub. DS dardisation Date	Sta	ate nal Release Doc-Key / ECM 100580647/UGD/0 500000076069
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts are consimultaneous power on all contacts is given the maximum temperature.	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including stinuous, non enectors when n, without exceeding	Electrical Load [A] 2		All rights r Department EC P HARTING Electronics GmbH	ze DIN A3 1:1 eserved Created by HAGEMEYERE D - DE Title DIN power r	Inspected by Stand TADJE HOFFI	Sub. DS dardisation Date	Sta	Doc-Key / ECM- 100580647/UGD/0 500000076069
Contact material Contact material Plating termination zone Plating contact zone Derating diagram acc. to IEC 60512-5 (Current carrying capacity is limited by temperature of materials for inserts and contacts are consimultaneous power on all contacts is given the maximum temperature.	Copper alloy Sn over Ni Au over PdNi over Ni ent carrying capacity) maximum contacts including stinuous, non enectors when n, without exceeding	Electrical Load [A]		All rights r Department EC P	ze DIN A3 1:1 eserved Created by HAGEMEYERE D - DE Title DIN power r	Inspected by Stand TADJE HOFFI	Sub. DS dardisation Date	Sta	ate nal Release Doc-Key / ECM 100580647/UGD/0 500000076069