	1	2 3	4	5 6
	HARTING	DIN power female	connector RoHS	Soldering instructions
A				The connectors should be protected when being soldered in a dip,
	L	:		contaminated as a result of soldering operations or deformed as
	General information			(1) For prototypes and short runs protect the connectors with an
	Design	IEC 60603-2		——— Cover the underside of the connector moulding and the adjacent p
	. <u>Design</u> No. of contacts	Signal: 21 or 24	types: MH 24+7, 21+5 female Power (only for type MH 24+7): 7	will prevent heat and gases of the soldering apparatus from dama
		5.08 mm	Power (only for Type fin 24+7): 7	suffice.
	Contact spacing Test voltage	Signal: 1550V	Power (only for type MH 24+7): 3100V	(2) For large series a jig is recommended. Its protective cover wit
	Contact resistance	Signal: 1000V Signal: max. 15m0hm for wirewrap and solder	Power (only for type HH 24+7): max. 8mOhm	from gas and heat generated by the soldering apparatus. As an a
	Insulation resistance	min. 10 ¹² 0hm		that should not be soldered.
В	Working current	Signal: 6A at 20°C	Power (only for type MH 24+7): 15A at 20°C	
	Temperature range	-55°C +125°C		Cross section of solder pins
	Termination technology	solder pins, wirewrap, crimp		
		Signal: min. 1,6 mm	Power (only for type MH 24+7): min. 4,5 mm	0,27 mm ²
		Signal: min. 3,0 mm	Power (only for type MH 24+7): min. 8,0 mm	
	Insertion and withdrawal force	max. 85N		
		- PL1 acc. to IEC 60603-2 =>	500 mating cycles	0,8_0,03
	Mating cycles	- PL2 acc. to IEC 60603-2 =>	400 mating cycles	03
		- PL3 acc. to IEC 60603-2 =>	50 mating cycles	0,52 -0
	UL file	E102079		
	RoHS – compliant	Yes		
С	Leadfree	Yes		Installation of crimp contacts
	Hot plugging	No		
	<u></u>			<u>Fitting the crimp contacts</u>
	Insulator material			After crimping the wires onto the contacts with the help of a cri tool or an automatic crimping machine the contacts should be corr
	Material PBT (thermoplastics, glass fiber reinforcement 30%)			oriented and inserted into the cavities of the connector moulding
	Colour RAL 7032 (grey)			required configuration. They snap into position and are firmly held
	UL classification	UL 94-V0		place. A light pull on the wire assures the correct tensile streng
	Material group acc. to IEC 60664-1	IIIa (175 <u><</u> CTI < 400)	· · · · · · · · · · · · · · · · · · ·	the contact. When using stranded wires with a gauge below 0.37 m
	NFF classification	I3, F4		insertion tool is necessary.
D	Contact material			The removal tool is inserted into a slot on the side of the respec
		C		crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light
	Contact material	Copper alloy	Device locks for here MIL 21, 7). As	the wire. This action will cause no damage to the contact/wire wh
	Plating termination zone Plating contact zone	Signal: Sn over Ni for solder & wirewrap Signal: Au over Ni	Power (only for type MH 24+7): Ag Power (only for type MH 24+7): Ag	be repositioned/refitted as necessary. The drawing demonstrates
				crimp removal procedure (max. 5x).
	Derating diagram acc. to IEC 60512-5 (Current carrying capacity)			
	The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.			perature.
E	Control and test procedures according to DIN IEC 60512-5			
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				,
		5		
	4		9	All Dimensions in mm Scale Free size tol.
				Original Size DIN A3 1:1
		Electrical Load [A]		All rights reserved Created by Inspected by
				NARTING STORIK TADIF
		0 20 40 60 80	100 120 °C 0 20 40 60 80 100 120	U Department EL PU - UE Title
F				C HARTING Electronics GmbH
l				
i	1	2 3	4	5 6

