


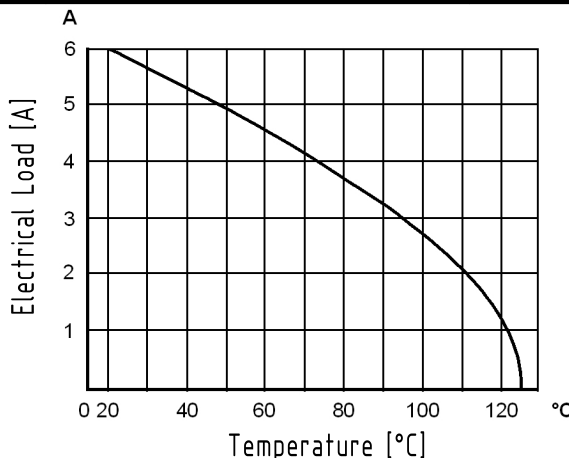
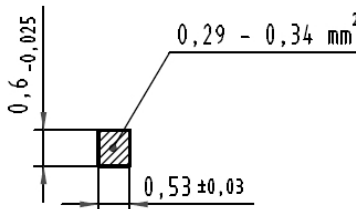
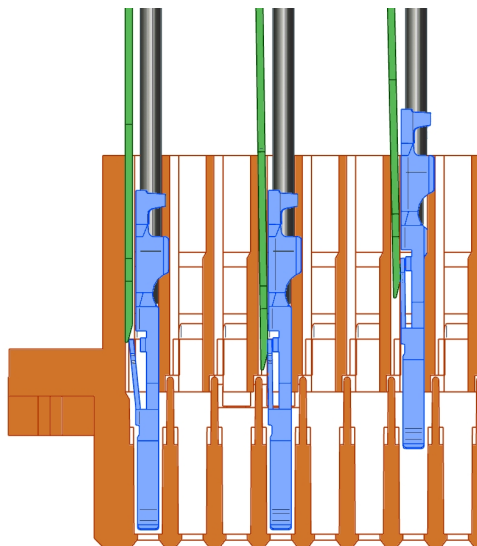




1		2		3		4		5		6		7		8		
A			DIN power male connector						 							
General information																
B	Design		IEC 60603-2				types: F9, FM male									
	No. of contacts		max. 9 for F9, 21+24 for FM													
	Contact spacing		5,08 mm													
	Test voltage		1550V													
	Contact resistance		max. 15mOhm													
	Insulation resistance		min. 10 ¹⁰ Ohm													
	Working current		max. 6A at 20°C (see derating diagram)													
	Temperature range		-55°C ... +125°C													
	Termination technology		solder pins, crimp													
	Clearance		min. 1,6 mm													
C	Creepage		min. 3,0 mm													
	Insertion and withdrawal force		9-pole max. 14N 45-pole max. 70N													
	Mating cycles		- PL1 acc. to IEC 60603-2 => - PL2 acc. to IEC 60 603-2 =>				500 mating cycles 400 mating cycles									
	UL file		E102079													
	RoHS - compliant		Yes													
	Leadfree		Yes													
	Hot plugging		No													
	Insulator material															
	D	Material		PBT (thermoplastics, glass fiber reinforcement 30%)												
Colour		RAL 7032 (grey)														
UL classification		UL 94-V0														
Material group acc. to IEC 60664-1		IIIa (175 ≤ CTI < 400)														
NFF classification		I3, F4														
Contact material																
E	Contact material		Copper alloy													
	Plating termination zone		Sn over Ni for solder				Ni for crimp									
	Plating contact zone		Au over Ni													
Derating diagram acc. to IEC 60512-5 (Current carrying capacity)																
F	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.															
	Control and test procedures according to DIN IEC 60512-5															
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.																
(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 the soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.																
(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors from gas and heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts that should not be soldered.																
Cross section of solder pins																
																
Installation of crimp contacts																
Fitting the crimp contacts 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 into the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 mm² an insertion tool is necessary.																
Removing the crimp contacts The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).																
																
		All Dimensions in mm Original Size DIN A3		Scale 1:1		Free size tol.		Ref. Sub. DS 09 06 120 00 02 / EC01557 / 28.04.11								
		All rights reserved Department EC PD - DE		Created by HAGEMEYERE		Inspected by TADJE		Standardisation HOFFMANN		Date 2014-09-12		State Final Release		Doc-Key / ECM-Nr. 100580644/UGD/000/A 500000076069		
HARTING Electronics GmbH D-32339 Espelkamp				Title DIN power male connector		Type DS		Number 09061200002		Rev. A		Page 1/1				
1		2		3		4		5		6		7		8		

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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.