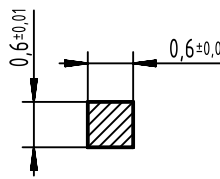
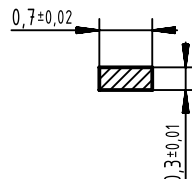
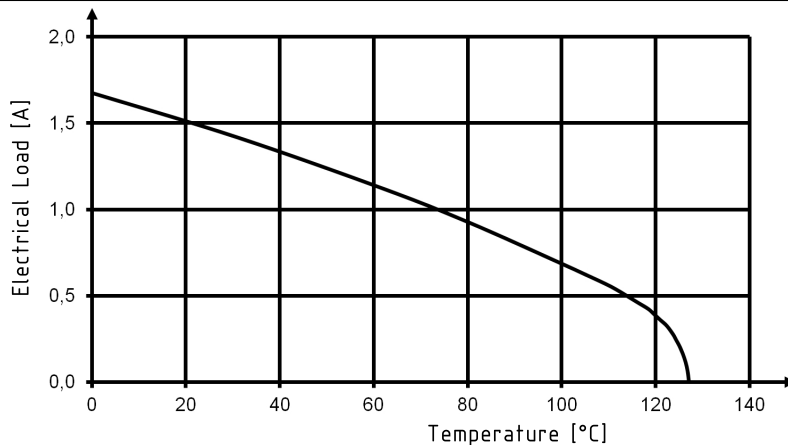


1	2	3	4	5	6	7	8
A				A			
HARTING				DIN Signal har-bus 64 female connector			
RoHS compliant				cULus			
General information				Soldering instructions			
Design IEC 61076-4-113 type: har-bus64 female				The connectors should be protected when being soldered in a dip, flow or film soldering bath. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.			
No. of contacts max. 160				(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.			
Contact spacing 2,54mm				(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.			
Test voltage 1000V				Cross section of solder pins			
Contact resistance max. 20mOhm for rows a, b, c max. 30mOhm for rows d, z				Recommended plated hole diameter: Ø 1± 0,1mm			
Insulation resistance min. 10 ¹² Ohm				Row d,z: A= 0,34mm ² - 0,39mm ² Row a, b, c: A= 0,20mm ² - 0,23mm ²			
Working current 1A at 70°C (see derating diagram)							
Temperature range -55°C ... +125°C							
Termination technology solder							
Clearance & creepage							
Insertion and withdrawal force max. 160N							
PCB thickness min. 1,6mm							
Mating cycles PL 1 acc. to IEC 61076-4-113 500 mating cycles PL 2 acc. to IEC 61076-4-113 250 mating cycles							
UL file E102079							
RoHS - compliant Yes							
Leadfree Yes							
Insulator material							
Material LCP (Liquid Cristal Polymer)							
Colour nature							
UL classification UL 94-V0							
Material group acc. to IEC 60664-1 IIIa (175 ≤ CTI < 400)							
Contact material							
Contact material Copper alloy							
Plating termination zone Sn over Ni							
Plating contact zone Au over Ni Au over PdNi over Ni for rows a, b, c							
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. Control and test procedures according to DIN IEC 60512-5							
With selective loading higher currents can be transmitted. The requirements according to VITA 1.7 are fulfilled.							
							
HARTING				DIN Signal har-bus 64 female connector			
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Department EC PD - DE				Rev. B Page 1/1			
HARTING Electronics GmbH							
D-32339 Espelkamp							
All Dimensions in mm Original Size DIN A3							
Scale 1:1							
Free size tol.							
Ref. Sub.							
Created by STORCK							
Inspected by ELLERMANN							
Standardisation HOFFMANN							
Date 2017-12-08							
State Final Release							
Type DS							
Number 02022100201							
1				2			

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