DIN Signal har-bus 64 male connector

RoHS 2011/65/EU

General information

Design	IEC 61076-4-113		type: har-bus64 male
No. of contacts	max. 160		
Contact spacing	2,54mm		
Test voltage	1000V		
Contact resistance	max. 20mOhm for rows a, b, c		max. 30mOhm for rows d, z
Insulation resistance	min. 10^{12}Ohm		
Working current	1A at 70°C (see derating diagram)		
Temperature range	-55°C ... +125°C		
Termination technology	solder		
Clearance & creepage		minimum distance	rows a, b, c / rows d, z
	between 2 rows	clearance	1,2mm / 1,2mm
		creepage	1,2mm / 1,2mm
	between 2 contacts in a row	clearance	1,2mm / 1,0mm
		creepage	1,2mm / 1,0mm
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

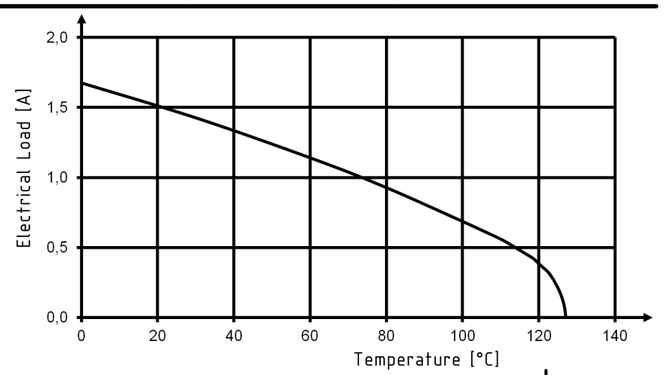
Contact material	Copper alloy
Plating termination zone	Sn over Ni
Plating contact zone	Au over Ni

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.



Soldering instructions

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.

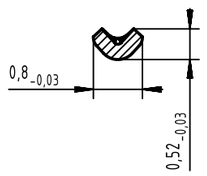
(1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de). Cover the underside of the connector moulding and the adjacent parts of the pcb as well as the open sides of the connector. This will prevent heat and gases of the soldering apparatus 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.

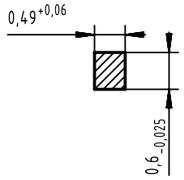
Cross section of solder pins

Recommended plated hole diameter: Ø 1± 0,1mm

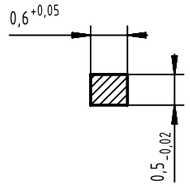
Row z: A= 0,21mm² - 0,25mm²



Row a, b, c: A= 0,28mm² - 0,33mm²



Row d: A= 0,29mm² - 0,33mm²



All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.		Ref. Sub. DS 02011200201 / EC04806 / 26.04.2012	
	Created by TADJE	Inspected by ZWAHR	Standardisation HOFFMANN	Date 2013-12-10	State Final Release
Department EC PD - DE	Title DIN Signal har-bus 64 male connector				Doc-Key / ECM-Nr. 100556568/UGD/001/A 500000068468
HARTING Electronics GmbH D-32339 Espelkamp	Type DS	Number 02011200201		Rev. A	Page 1/1

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