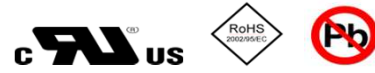




har-bus® 64 male connector



General information

Design	IEC 61076-4-113	type: har-bus® 64 male
No. of contacts	max. 160	
Contact spacing	2,54 mm	
Test voltage	1000V	
Contact resistance	≤ 20 mOhm for rows a, b, c	≤ 30 mOhm for rows z, d
Insulation resistance	≥ 10 ¹² Ohm	
Working current	1 A@70°C (see derating diagram)	
Temperature range	-55°C ... +125°C	
Termination technology	solder	

Clearance & creepage distance	minimum distance	rows	
		a, b, c	d, z
between 2 rows	clearance	1,2 mm	1,2 mm
	creepage	1,2 mm	1,2 mm
between 2 contacts in a row	clearance	1,2 mm	1,0 mm
	creepage	1,2 mm	1,0 mm

Insertion and withdrawal force	≤ 160N
PCB thickness	≥ 1,6mm
Mating cycles	- PL1 acc. to IEC 61076-4-113 => 500 mating cycles - PL2 acc. to IEC 61076-4-113 => 250 mating cycles
UL file	E102079
RoHS - compliant	Yes
Leadfree	Yes

Insulator material

Material	LCP (Liquid Cristal Polymer)
Color	nature
UL classification	UL 94-V0
Material group acc. 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

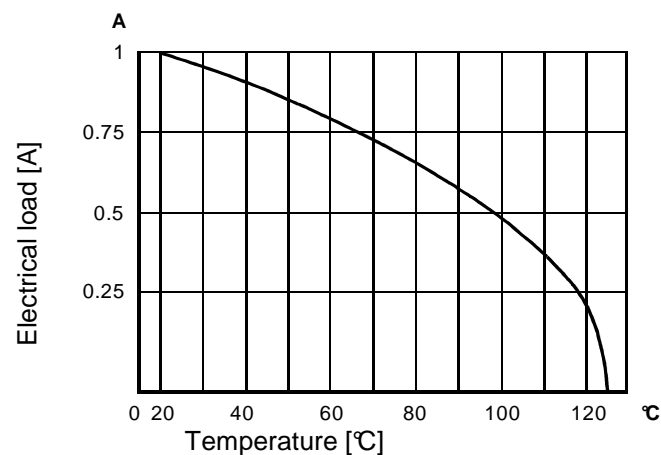
Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

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 IEC 60512-5

With selective loading higher currents can be transmitted. The requirements according to VITA 1.7 are fulfilled.



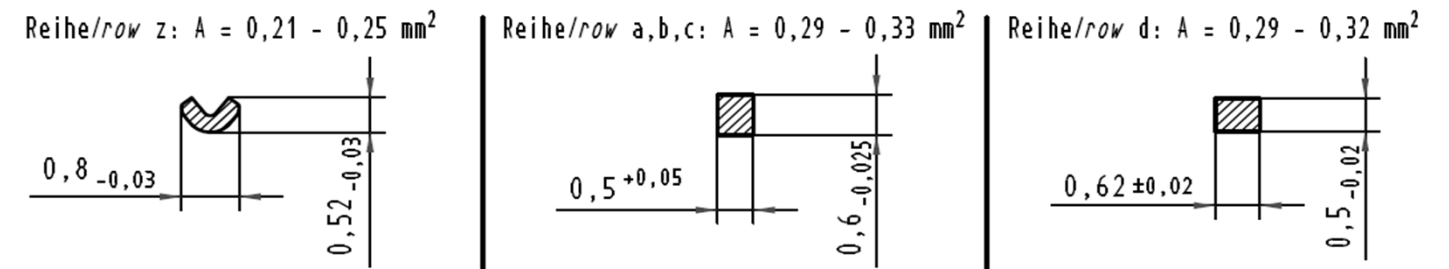
Soldering instructions

The connectors should be protected when being soldered in a dip, flow or film soldering 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 terminations



Mod.	Date	Name	Date	Name
			21/04/11	mte
EC04806	26/04/12	mte	21/04/11	TD
EC01482				



Technical data sheet

har-bus® 64 male connector

DS 02 01 120 02 01

HARTING Electronics GmbH & Co. KG