



# DIN Signal har-bus 64 female connector



## General information

Design	IEC 61076-4-113	type: har-bus 64 female
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 <sup>12</sup> Ohm	
Working current	1A at 70°C (see derating diagram)	
Temperature range	-40°C ... +105°C (due to limitations of PCB material)	
Termination technology	press-in	

Clearance & creepage	minimum distance	rows a, b, c		rows d, z
		between 2 rows	clearance	
	between 2 contacts in a row		creepage	
			clearance	
			1,2mm	1,2mm
			1,2mm	1,2mm
			1,2mm	1,0mm
			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	Ni		
Plating contact zone I	Au over Ni for rows d,z	Au over PdNi over Ni for rows a,b,c	
Plating contact zone II (termination side)	Au over Ni for rows d,z	Au over PdNi over Ni for rows a,b,c	

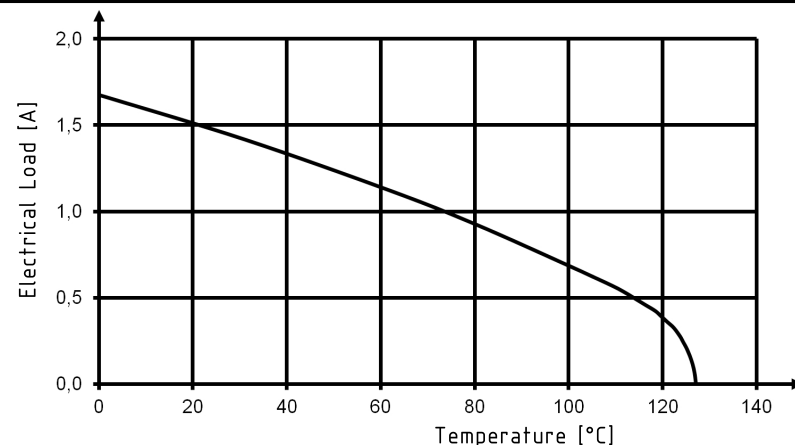
## Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

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.

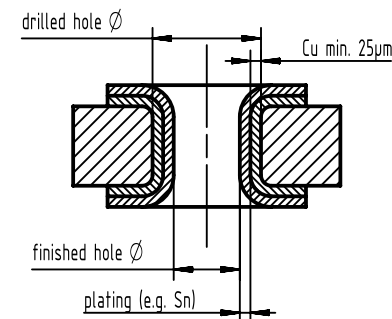
Control and test procedures according to DIN IEC 60512-5

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



## Recommended configuration of plated through holes for press-in termination

In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties - such as mechanical strength and coefficient of friction - we recommend the following configuration of PCB through holes.



Tin plated PCB (HAL) acc. to EN 60352-5	Drilled hole Ø	1,15±0,025 mm
	Sn	max. 15 µm
	plated hole Ø	0,94 - 1,09 mm
Chemical tin plated PCB	Drilled hole Ø	1,15±0,025 mm
	Sn	min. 0,8µm
	plated hole Ø	1,00 - 1,10 mm
Gold /Nickel plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ni	3 - 7 µm
	Au	0,05 - 0,12 µm
	plated hole Ø	1,00 - 1,10 mm
Silver plated PCB	Drilled hole Ø	1,15±0,025 mm
	Ag	0,1 - 0,3 µm
	plated hole Ø	1,00 - 1,10 mm
Copper plated PCB (OSP)	Drilled hole Ø	1,15±0,025 mm
	plated hole Ø	1,00 - 1,10 mm

## Assembly instructions

It is highly recommended to use HARTING press-in tools to ensure a reliable press-in process. Please refer to the catalogue for tools, machines and further information about the press-in process.

		All Dimensions in mm Original Size DIN A3		Scale 1:1		Free size tol.		Ref. Sub. DS 02022100102 / 500000068472 / 2014-03-06					
		All rights reserved		Created by STORCK		Inspected by LEHNERT		Standardisation HOFFMANN		Date 2016-09-06		State Final Release	
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