



# har-bus®64 female connector



## General information

Design	IEC 61076-4-113	type: har-bus®64 female
No. of contacts	max. 160	
Contact spacing	2,54 mm	
Test voltage	1000 V	
Contact resistance	max. 20 mOhm for rows a, b, c	max. 30 mOhm for rows z, d
Insulation resistance	min. 10 <sup>10</sup> Ohm	
Working current	1 A@70°C (see derating diagram)	
Temperature range	-55°C ... +125°C	
Termination technology	crimp	
Clearance & creepage distance	min. 1,2 mm	
Insertion and withdrawal force	max. 160 N	
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	PC (thermoplastics, glass fiber reinforcement 20%)
Colour	RAL 7032 (grey)
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	IIIa (175 ≤ CTI < 400)
NFF classification	I2, F1

## Contact material

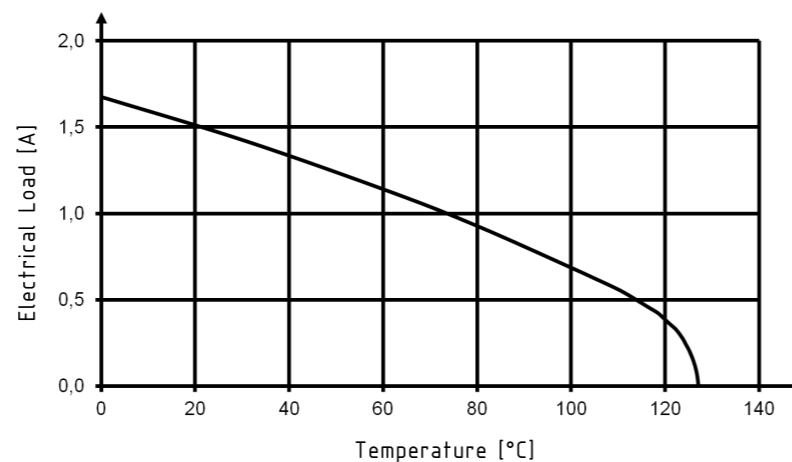
Contact material	Copper alloy
Plating termination zone	Ni
Plating contact zone	Au over Ni

## 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.



## Installation of crimp contacts

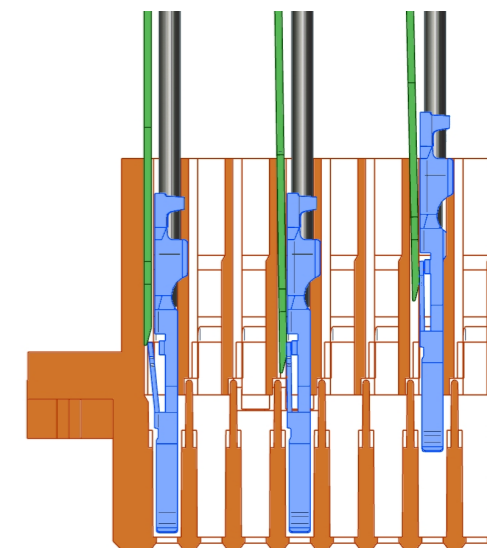
### Fitting the crimp contacts

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 mm<sup>2</sup> 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).



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