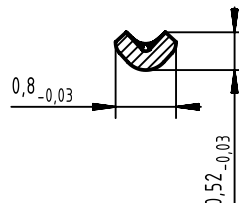
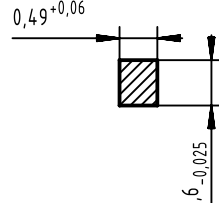
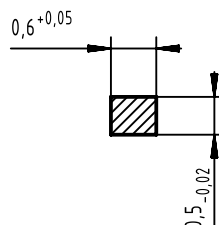
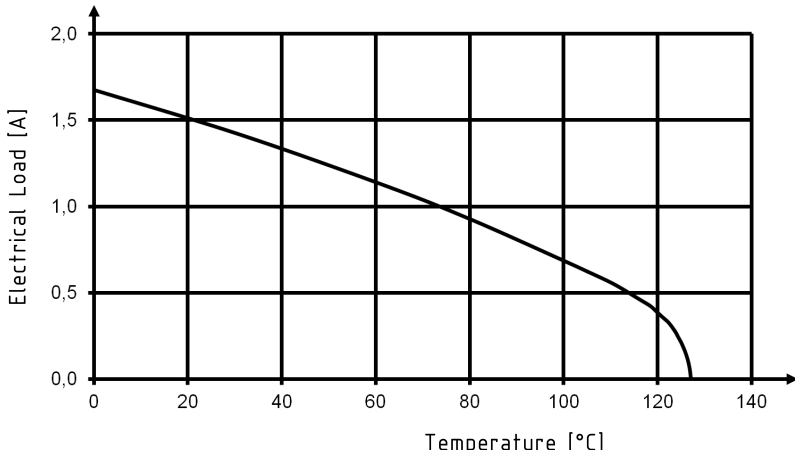


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 DIN Signal har-bus 64 male connector 				Soldering instructions The connectors should be protected when being soldered in a dip, flow or film soldering baths. Otherwise, they might become contaminated as a result of soldering operations or deformed 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.																																																													
General information <table><tr><td>Design</td><td>IEC 61076-4-113</td><td>type: har-bus64 male, special version</td></tr><tr><td>No. of contacts</td><td>max. 160</td><td></td></tr><tr><td>Contact spacing</td><td>2,54mm</td><td></td></tr><tr><td>Test voltage</td><td>1000V</td><td></td></tr><tr><td>Contact resistance</td><td>max. 20mOhm for rows a, b, c</td><td>max. 30mOhm for rows d, z</td></tr><tr><td>Insulation resistance</td><td>min. 10¹²Ohm</td><td></td></tr><tr><td>Working current</td><td>1A at 70°C (see derating diagram)</td><td></td></tr><tr><td>Temperature range</td><td>-55°C ... +125°C</td><td></td></tr><tr><td>Termination technology</td><td>solder</td><td></td></tr></table> <table><tr><td rowspan="4">Clearance & creepage</td><td rowspan="2">between 2 rows</td><td>maximum distance</td><td>rows a, b, c</td><td>rows d, z</td></tr><tr><td>clearance</td><td>1,2mm</td><td>1,2mm</td></tr><tr><td rowspan="2">between 2 contacts in a row</td><td>clearance</td><td>1,2mm</td><td>1,0mm</td></tr><tr><td>creepage</td><td>1,2mm</td><td>1,0mm</td></tr></table> <table><tr><td>Insertion and withdrawal force</td><td>max. 160N</td></tr><tr><td>PCB thickness</td><td>min. 1,6mm</td></tr><tr><td>Mating cycles</td><td>PL 1 acc. to IEC 61076-4-113</td><td>500 mating cycles</td></tr><tr><td>UL file</td><td>E102079</td><td></td></tr><tr><td>RoHS - compliant</td><td>No (for compliant version see catalogue)</td><td></td></tr><tr><td>Leadfree</td><td>No (for compliant version see catalogue)</td><td></td></tr></table>				Design	IEC 61076-4-113	type: har-bus64 male, special version	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	between 2 rows	maximum distance	rows a, b, c	rows d, z	clearance	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	UL file	E102079		RoHS - compliant	No (for compliant version see catalogue)		Leadfree	No (for compliant version see catalogue)		Cross section of solder pins Recommend plated hole diameter: $\varnothing 1\pm 0,1\text{mm}$ Row z: $A = 0,21\text{mm}^2 - 0,25\text{mm}^2$  Row a, b, c: $A = 0,28\text{mm}^2 - 0,33\text{mm}^2$  Row d: $A = 0,29\text{mm}^2 - 0,33\text{mm}^2$ 			
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 All rights reserved Department EC PD - DE HARTING Electronics GmbH D-32339 Espelkamp				 Scale 1:1 Free size tol. Ref. Sub. DS 02011200202 / EC01482 / 21.04.2011 Created by TADJE Inspected by ELLERMANN Standardisation HOFFMANN Date 2013-10-30 State Final Release Title DIN Signal har-bus 64 male connector Doc-Key / ECM-Nr. 100553548/UGD/001/A 500000067793 Type DS Number 02011200202 Rev. A Page 1/1																																																													
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