1	2 3	4	5 6 7 8
		l	
ARTING har	-bus®64 female co	nnector angled RoHS	Soldering instructions
IIdi	-Da2@04 Elligie Co	illiction diryted compliant	
		:	The connectors should be protected when being soldered in a dip, flow or film soldering bath. Otherwise, they might become
- 1.6			contaminated as a result of soldering operations or deformed as a result of overheating.
General information			(1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de).
Docian	IEC 61076-4-113	tune, has bus@61 autonder sand connector	Cover the underside of the connector moulding and the adjacent parts of the pcb as well as the open sides of the connector. The
Design No. of contacts	max. 160	type: har-bus®64 extender card connector	will prevent heat and gases of the soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.
Contact spacing	2,54 mm		-
Test voltage	1000 V		(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors
Contact resistance	max. 20 mOhm	max. 30 mOhm for rows z, d	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.
nsulation resistance	min. 10 ¹² Ohm		
Working current	1 A at 70°C (see derating diagram)		Cross section of solder terminations
Temperature range	-55°C +125°C		
Temperature range for reflow soldering	max. 20 s @ 240°C		Rowa, z Rowb, c, d
Termination technology	solder pins	<u> </u>	0,76±0,03
Clearance & creepage distance	0,6 mm between the rows		
· -	0,8 mm between two contacts in a row		
Insertion and withdrawal force	max. 160 N		— 10°C
PCB thickness	min. 1,6 mm	500 1:	
Mating cycles	PL 1 acc. to IEC 61076-4-113	500 mating cycles	— Ol Ol
UL file	E102079		—
RoHS - compliant Leadfree	Yes Yes		Recommended plated hole diameter: 1 mm ± 0,1
Material	Termination side PBT (GF 30%)	Mating side PCB LCP (GF 30%) FR4	
Colour	RAL 7032 (grey)	nature green	
UL classification	UL 94-V0	UL 94-V0 -	_
Material group acc. to IEC 60664-1	IIIa (175 <u><</u> CTI < 400)	IIIa (175 <u><</u> CTI < 400) -	<u>_ </u>
NFF classification	I3, F4	-	—
Contact material			<u>_ </u>
Contact material	Copper alloy		_
Plating termination zone	Sn over Ni		<u>-</u>
Plating contact zone	Au over Ni		<u>_</u>
Derating diagram acc. to IEC 60512-5 (Cu	pront carrying capacity!		—
			-
The current carrying capacity is limited to of materials for inserts and contacts inc	oy maximum temperature		
or mareriats for miseris and confiders INC	tuding Terminats.		
The current capacity curve is valid for c			
interrupted current loaded contacts of c simultaneous power on all contacts is giv	_		
the maximum temperature.	- J		All Dimensions in mm Scale Free size tol. Original Size DIN A3 1:1 Ref. Sub. DS 02 07 220 02 01 Mod FF01482 2011_04_21
Control and test procedures according to	DIN IEC 60512-5		300, 50 to 10 120 12 11 11 11 11 11 11 11 11 11 11 11 11
	n be transmitted. The		All rights reserved Created by Inspected by Standardisation Date State
With selective loading higher currents ca			HARTING THIELEMANN TADJE KOHLER 2014-07-17 Final Release
			har-bus®64 female connector angled Doc-Key / ECM-100580001/UGD/00 100580001/UGD/00 1005800001/UGD/00 10058000001/UGD/00 10058000001/UGD/00 100580000000000000000000000000000000000
	I		
	0,0	20 40 60 80 100 120 14	HARTING Electronics GmbH
	0,0 0	20 40 60 80 100 120 14	HARTING Electronics GmbH
With selective loading higher currents ca requirements according to VITA 1.7 are f	0,0 0	20 40 60 80 100 120 14 Temperature [°C]	HARTING Electronics GmbH

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