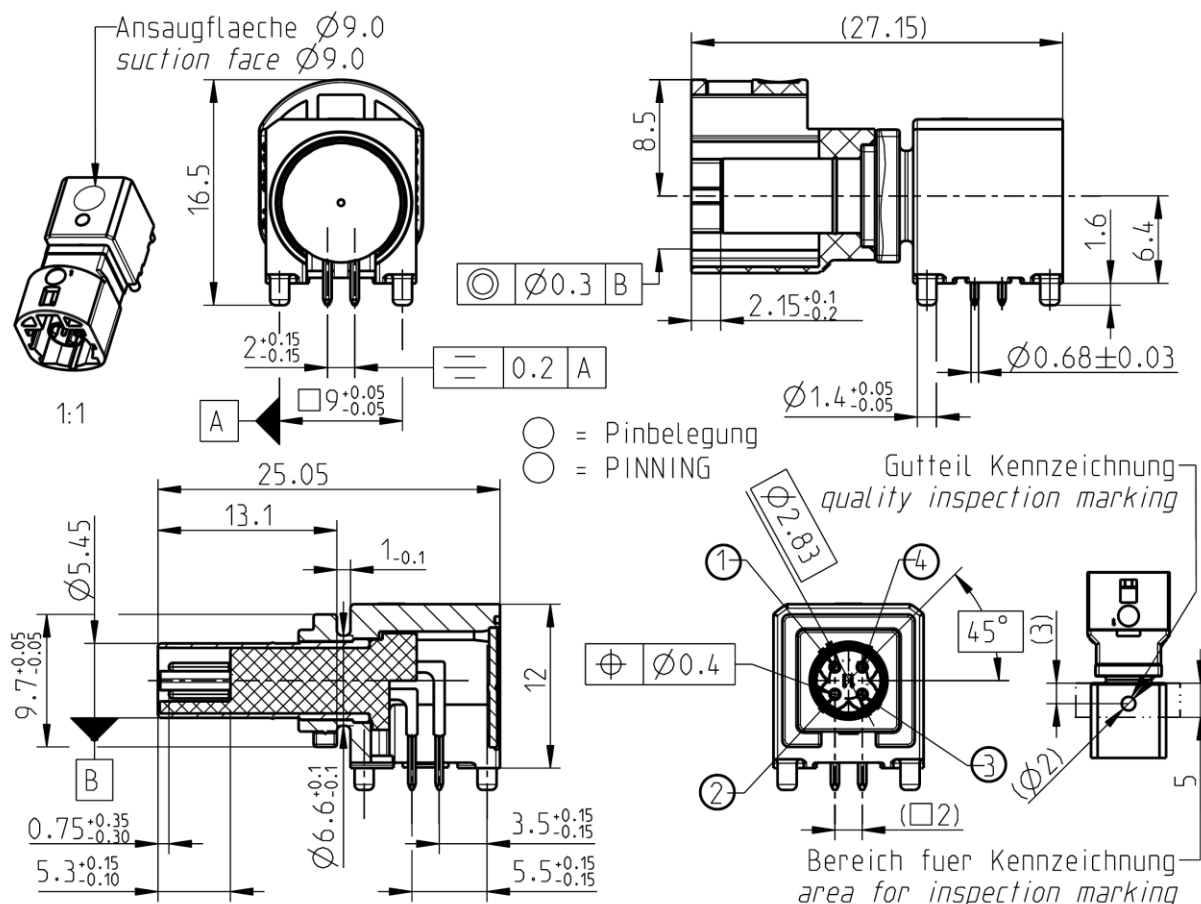




All dimensions are in mm.

EMC-screening must be assured by chassis compartment. Control box manufacturer is responsible for EMC-screening.

Interface

According to

RN_059-01

Documents

Assembly instruction

MA D4V018

Panel piercing

MB⁻ 283

Pinning instruction

RN 053-01

Test specification

RN 061-01

Tape & reel packing

VG127.17500

Material and plating

Connector parts

Center contact

Material

Spring bronze

Plating

Gold, 0.15 μm (Interface)

Tin, 0.5-2 μm (PCB)

Nickel, 3-6 μm

Tin, 2-6 μm , over nickel

Outer contact 1 (Interface)

Outer contact 2 (PCB)

Cover

Dielectric

Housing

Brass

Zinc alloy

Alpaca

LCP

PA 6T/66

Electrical data

Impedance, differential mode	100 Ω differential signalling, for one pair or quad cable shielded
Frequency	DC to 2.0 GHz
Return loss	≥ 20 dB to 1.0 GHz
	≥ 17 dB to 2.0 GHz
Insertion loss	≤ 0.1 dB @ 1.0 GHz
Skew (between signal contacts)	≤ 25 psec. (can be reduced by layout)
Nearend-crosstalk	≤ -30 dB (1GHz)
Far-end-crosstalk	≤ -35 dB (1GHz)
Insulation resistance	$\geq 1 \times 10^3$ M Ω
Signal contact resistance	≤ 10 m Ω
Outer contact resistance	≤ 7.5 m Ω
Test voltage	250 V rms
Working voltage	100 V rms
Power current	≤ 1.5 A DC
RF-leakage (shielding effectiveness)	≥ 75 dB up to 1 GHz (IEC 62153-4-7)
	≥ 65 dB up to 2 GHz (IEC 62153-4-7)

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 80 N

Environmental data

Temperature range	-40°C to +105°C	
Thermal shock	IEC 60068-2-14 Test NA	
Temperature and humidity	SAE/USCar-2, Rev. 4, 5.6.2	
Vibration (random)	IEC 60068-2-64	e
Mechanical shock	IEC 60068-2-27	
High-temp. exposure	IEC 60068-2-2	
Soldering profile	acc. to IEC 60068-2-58; group 3 (250°C / 30s)	
RoHS	compliant	

Tooling

	N/A
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Suitable cables

N/A

Packing

Standard	175 pcs on tape & reel 1050 pcs in box (6 x 175 pcs/reel) 100 pcs in blister (e)
Weight	10,02 g/pce

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RF_35/09_14/6.2

Technical Data Sheet				Rosenberger																																																																																																	
Rosenberger HSD®		RIGHT ANGLE PLUG FOR PCB		D4S20H-40MA5-Y																																																																																																	
Coding Part Number has to be accomplished by codification <table><tr><td>Coding</td><td>Plug</td><td>Colour</td><td>RAL</td><td colspan="4">Part-Number</td></tr><tr><td>A</td><td></td><td>black</td><td>sim. 9005</td><td colspan="4">D4S20H-40MA5-A</td></tr><tr><td>B</td><td></td><td>white</td><td>sim. 9001</td><td colspan="4">D4S20H-40MA5-B</td></tr><tr><td>C</td><td></td><td>blue</td><td>sim. 5005</td><td colspan="4">D4S20H-40MA5-C</td></tr><tr><td>D</td><td></td><td>bordeaux</td><td>sim. 4004</td><td colspan="4">D4S20H-40MA5-D</td></tr><tr><td>E</td><td></td><td>green</td><td>sim. 6002</td><td colspan="4">D4S20H-40MA5-E</td></tr><tr><td>F</td><td></td><td>brown</td><td>sim. 8011</td><td colspan="4">D4S20H-40MA5-F</td></tr><tr><td>Z</td><td></td><td>waterblue</td><td>sim. 5021</td><td colspan="4">D4S20H-40MA5-Z</td></tr></table> Change History <table><tr><th>Rev.</th><th>Date</th><th>Change</th></tr><tr><td>e00</td><td>19.09.18</td><td> - Skew (between signal contacts) changed from "5 psec." to "25 psec. (can be reduced by layout)" - Nearend-crosstalk changed from "≤ 30 dB" to "≤ -30 dB (1GHz)" - Farend-crosstalk changed from "≤ 35 dB" to "≤ -30 dB (1GHz)" - Thermal shock changed from "DIN IEC 60068-2-14 Test NA" to "IEC 60068-2-14 Test NA" - Temperature and humidity changed from "USCar 2 – 4 5.6.2" to "SAE/USCar 2 Rev.4, 5.6.2" - Vibration (random) changed from "DIN IEC 60068-2-64" to "IEC 60068-2-64" - Mechanical shock changed from "DIN IEC 60068-2-27" to "IEC 60068-2-27" - High-temp. exposure changed from "DIN IEC 60068-2-2" to "IEC 60068-2-2" - Soldering profile changed from "acc. to IEC 60068-2-58; group 3&4" to "acc. to IEC 60068-2-58; group 3 (250°C / 30s)" - "100 pcs in blister" packing variant added </td></tr></table> While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary. <table><tr><td>Draft</td><td>Date</td><td>Approved</td><td>Date</td><td>Rev.</td><td>Engineering change number</td><td>Name</td><td>Date</td></tr><tr><td>M. Zebhauser</td><td>18.01.08</td><td>A. Peter</td><td>02.10.18</td><td>e00</td><td>18-1371</td><td>A. Krejber</td><td>02.10.18</td></tr></table> <table><tr><td colspan="4">Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de</td><td colspan="2">Tel. : +49 8684 18-0 Email : info@rosenberger.de</td><td colspan="2">Page 3 / 3</td></tr></table>								Coding	Plug	Colour	RAL	Part-Number				A		black	sim. 9005	D4S20H-40MA5-A				B		white	sim. 9001	D4S20H-40MA5-B				C		blue	sim. 5005	D4S20H-40MA5-C				D		bordeaux	sim. 4004	D4S20H-40MA5-D				E		green	sim. 6002	D4S20H-40MA5-E				F		brown	sim. 8011	D4S20H-40MA5-F				Z		waterblue	sim. 5021	D4S20H-40MA5-Z				Rev.	Date	Change	e00	19.09.18	- Skew (between signal contacts) changed from "5 psec." to "25 psec. (can be reduced by layout)" - Nearend-crosstalk changed from "≤ 30 dB" to "≤ -30 dB (1GHz)" - Farend-crosstalk changed from "≤ 35 dB" to "≤ -30 dB (1GHz)" - Thermal shock changed from "DIN IEC 60068-2-14 Test NA" to "IEC 60068-2-14 Test NA" - Temperature and humidity changed from "USCar 2 – 4 5.6.2" to "SAE/USCar 2 Rev.4, 5.6.2" - Vibration (random) changed from "DIN IEC 60068-2-64" to "IEC 60068-2-64" - Mechanical shock changed from "DIN IEC 60068-2-27" to "IEC 60068-2-27" - High-temp. exposure changed from "DIN IEC 60068-2-2" to "IEC 60068-2-2" - Soldering profile changed from "acc. to IEC 60068-2-58; group 3&4" to "acc. to IEC 60068-2-58; group 3 (250°C / 30s)" - "100 pcs in blister" packing variant added	Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date	M. Zebhauser	18.01.08	A. Peter	02.10.18	e00	18-1371	A. Krejber	02.10.18	Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de		Page 3 / 3	
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