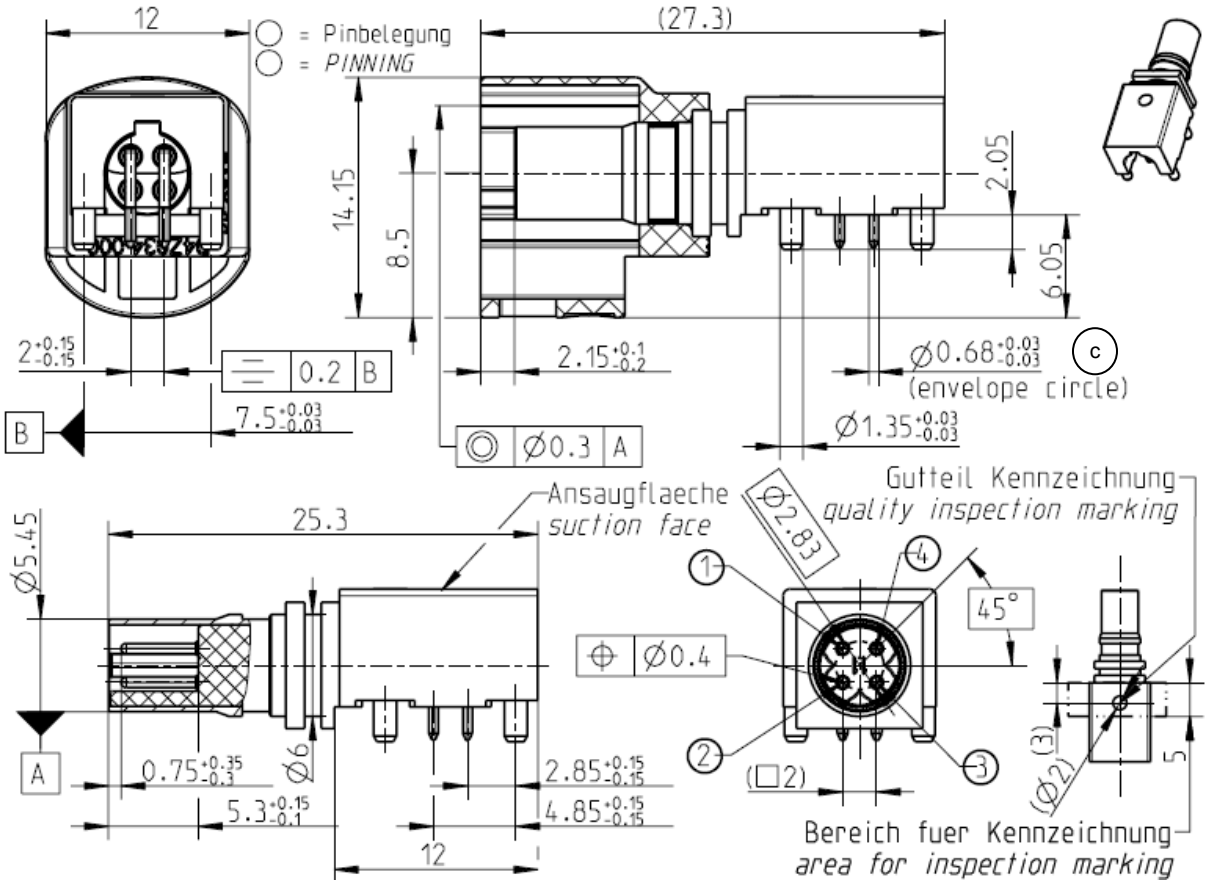
Technical Data Sheet		Rosenberger
RosenbergerHSD®	RIGHT ANGLE PLUG FOR PCB	**D4S2UL-40MA5-Y**



All dimensions are in mm; tolerances according to ISO 2768 m-H
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	D4V010
Pinning instruction	RN 053-01
Panel piercing	MB_215
Test specification	RN 061-01
Tape & Reel packaging	VG96.20000

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	Gold, 0.15 µm (Interface) Tin, 0.5-2 µm (PCB)
Outer contact	Brass	Ni 3-6µm (Interface) b Tin 3-6µm (PCB)
Dielectric	LCP	
Housing	PA 6T/66	

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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)	≤ 5 psec.
Nearend-Crosstalk	≤ 30 dB
Farend-Crosstalk	≤ 35 dB
Insulation resistance	≥ $1x10^3$ MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
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	DIN IEC 60068-2-14 Test NA
Temperature and humidity	USCar 2 – 4 5.6.2
Vibration (Random)	DIN IEC 60068-2-64
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
Soldering profile	acc. to IEC 60068-2-58; Group 3&4
RoHS	compliant (b)

Tooling

N/A

Suitable cables

N/A

Packing

Standard	200 pcs on tape & reel
Weight	6.84 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
G		grey	sim. 7031	D4S2UL-40MA5-G
H		violet	sim. 4003	D4S2UL-40MA5-H
J		beige	sim. 1001	D4S2UL-40MA5-J
K		curry	sim. 1027	D4S2UL-40MA5-K
L		yellow green	sim. 6018	D4S2UL-40MA5-L
M		pastel orange	sim. 2003	D4S2UL-40MA5-M
O		light green	sim. 6027	D4S2UL-40MA5-O

Change History

Rev.	Date	Change
b00	03.09.13	Material and plating changed: -from Nickel 2,5-5 µm (Interface) to Ni 3-6 µm (Interface) -from Tin 6-8 µm (PCB) to Tin 3-6µm (PCB) Environmental data changed: -from 2002/95/EC (RoHs) to RoHs
c00	08.04.14	Dimension change from □0,55/Ø0,68±0,03 to Ø0,68±0,03

Draft	Date	Approved	Date
Thomas Höfling	26.07.11	S. Hering	08.04.14

Rev.	Engineering change number	Name	Date
c00	14-0526	R. Hochheim	08.04.14

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