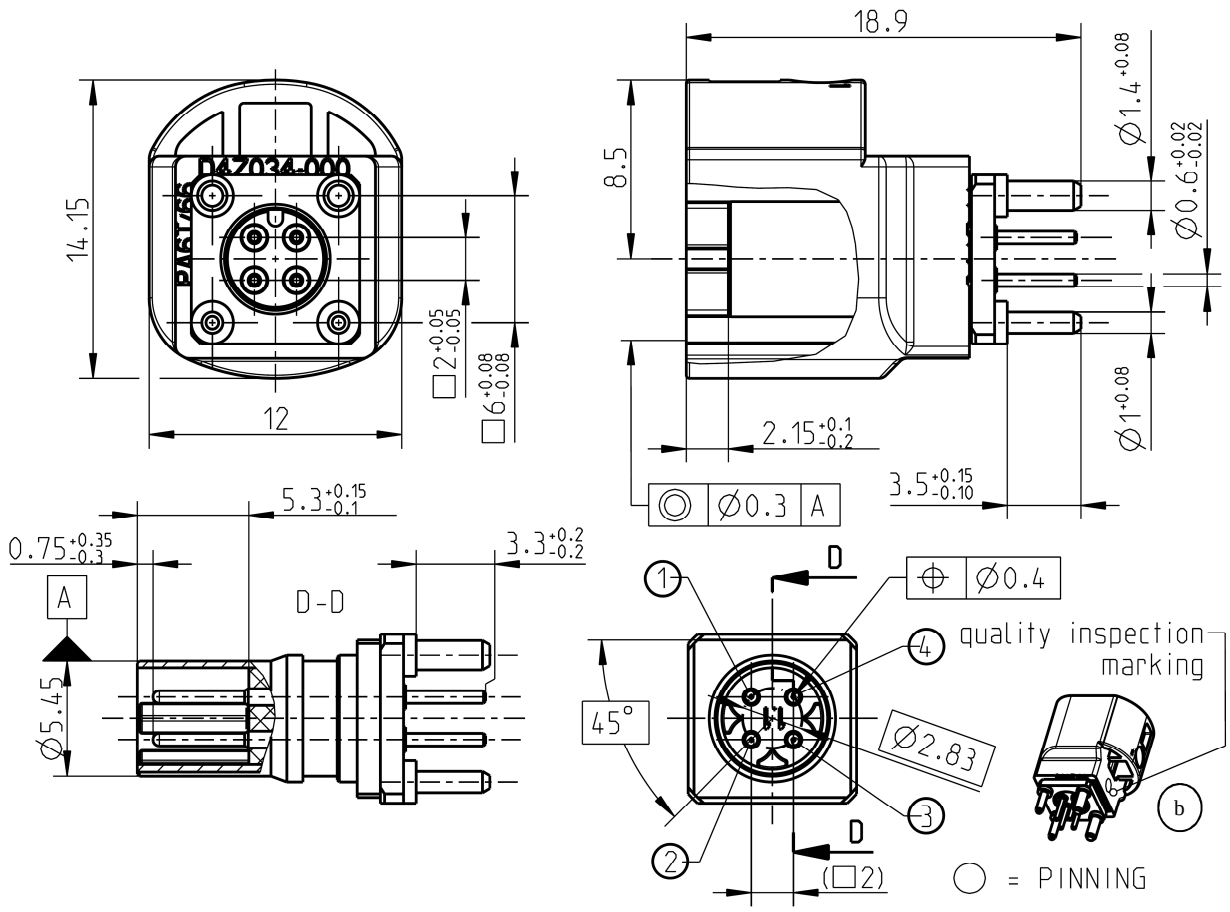
Technical Data Sheet	Rosenberger
Rosenberger HSD® STRAIGHT PLUG FOR PCB	**D4S10A-400L5-Y**



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

PCB layout	MB_214
Pinning instruction	RN 053-01
Test specification	RN 061-01
Tape and Reel packaging	VG97.12500

Material and plating

Connector parts	**Material**	**Plating**
Center contacts	Brass	Gold, 0.15 µm
Outer contact	Brass	Gold, 0.15 µm
Dielectric	LCP	
Housing	PA 6T/66	

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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

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

Tooling

N/A

Suitable cables

N/A

Packing

Standard	125 pcs on tape & reel
Weight	2.9 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S10A-400L5-A
B		white	sim. 9001	D4S10A-400L5-B
C		blue	sim. 5005	D4S10A-400L5-C
D		bordeaux	sim. 4004	D4S10A-400L5-D
E		green	sim. 6002	D4S10A-400L5-E
F		brown	sim. 8011	D4S10A-400L5-F
Z		waterblue	sim. 5021	D4S10A-400L5-Z

Change History

Rev.	Date	Change
b00	22.04.15	add quality inspection marking

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P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

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19K104-K00L5 32S107-306L5 32K151-S00L5 19K119-K11L5 32K607-303L5 53K189-K00N1 59K214-302L5
119S104-40ML5 19S202-40ML5 32S207-303L5 53K503-K00N5 119K101-272N5 19S103-400L5
02K621-K00S3 02S119-S00E3 19S161-40ML5 28K132-K00N5 32RS132-K00L5 32S151-S00L5
53K160-KIMN1 59K214-303L5 32S102-271L5 32Z111-000L5 71S102-109N5