

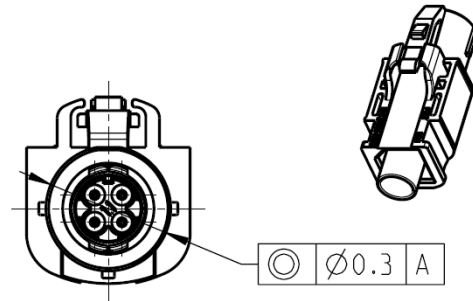
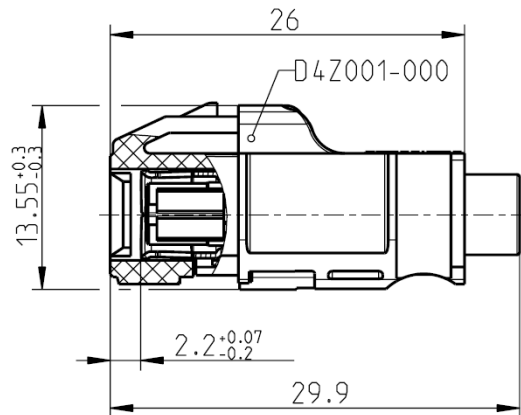
Technical Data Sheet

Rosenberger

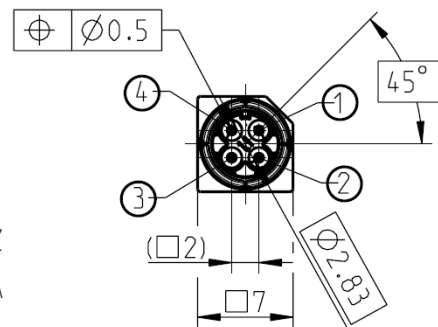
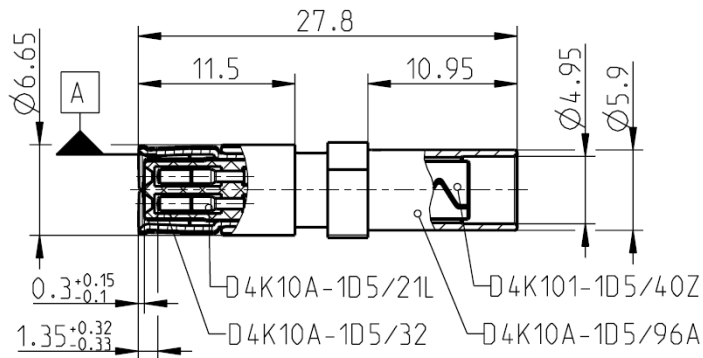
RosenbergerHSD®

STRAIGHT JACK

D4K10A-1D5A5-Y



○ = Pinbelegung
○ = PINNING



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

RN 059-01

Documents

Assembly instruction

Pinning instruction

Test Specification

MA_D4V007

RN 053-01

RN 061-01

c01

Material and plating

Connector parts

Center contact

Outer contact

Contact sleeve

Dielectric

Crimping ferrule

Housing

Secondary lock

Material

Spring bronze

Brass

Spring bronze

PA 12

Spring bronze

PBT

PBT

Plating

Contact=Gold min. 0.15µm; Crimp=Sn min. 1µm

Nickel, 2.5-5 µm

Nickel, 2.5-5 µm

Tin, 0.5-2 µm

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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	$\geq 1 \times 10^3$ 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
Retention force primary lock	≥ 80 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

Crimping tool	on request
Crimp insert	on request

Suitable cables

Cable type	Dacar 538
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STRAIGHT JACK

D4K10A-1D5A5-Y

Packing

Standard
D4K10A-1D5/96A
D4K10A-1D5/21L
D4K10A-1D5/32
D4K101-1D5/40Z
D4Z001-000-Y

100 pcs in box (sample parts)
500 pcs in box
500 pcs on reel / 30000 pcs on reel
3000 pcs in box
250 pcs in box / 2500 pcs on reel
250 pcs in box

Weight

5.28 g/pce

Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-Number
A		black	sim. 9005	D4K10A-1D5A5-A
B		white	sim. 9001	D4K10A-1D5A5-B
C		blue	sim. 5005	D4K10A-1D5A5-C
D		bordeaux	sim. 4004	D4K10A-1D5A5-D
E		green	sim. 6002	D4K10A-1D5A5-E
F		brown	sim. 8011	D4K10A-1D5A5-F
Z		waterblue	sim. 5021	D4K10A-1D5A5-Z
		traffic purple	sim. 4006	secondary lock

Change History

Rev	Date	Change
c01	23.11.2016	Indication of the assembly instruction corrected: MA_D4V007

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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Zebhauser	08.12.05	J. Schröck	28.11.16	c01	16-1967	R. Gnodtke	28.11.16
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[D4K10A-1D5A5-D](#) [D4K10A-1D5A5-B](#) [D4K10A-1D5A5-E](#) [D4K10A-1D5/95A](#)