

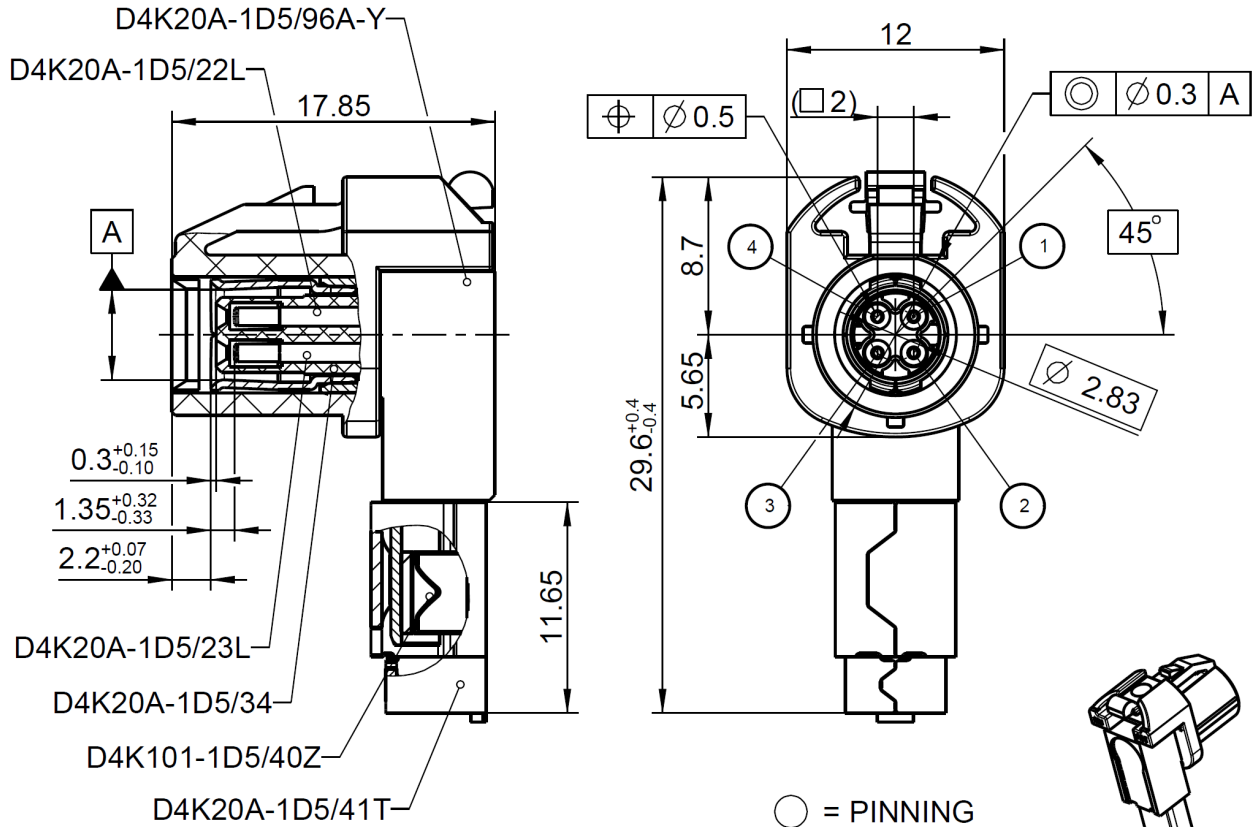
TECHNICAL DATA SHEET

Rosenberger

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HSD®

RIGHT ANGLE JACK

D4K20E-1D5A5-Y



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

Interface

According to

RN 059-01

Documents

Assembly instruction

MA_D4V037

Pinning instruction

RN 053-01

Test Specification

RN 061-01

Material and plating

Connector parts

Center contact
Outer contact
Contact sleeve
Dielectric
Crimping ferrule
Crimp cover
Housing
Insulating cap

Material

Spring bronze
Brass
Spring bronze
PA12-GF30
Spring bronze
Spring bronze
PBT-GB20
PP-GF30

Plating

Gold, min. 0.15 µm, over chemical nickel
Nickel, 3-6 µm
Nickel, 3-6 µm
Tin, 1.5-3 µm
Tin, 1.5-3 µm

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RF_35/09;14/6.2

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
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
RoHS	compliant

Tooling

Crimping tool	on request
Crimp insert	on request

Suitable cables

Cable type	Dacar 535
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Packing

Standard	not packed
Weight	6.4 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-Number
A		black	sim. 9005	D4K20E-1D5A5-A
B		white	sim. 9001	D4K20E-1D5A5-B
C		blue	sim. 5005	D4K20E-1D5A5-C
D		bordeaux	sim. 4004	D4K20E-1D5A5-D
E		green	sim. 6002	D4K20E-1D5A5-E
F		brown	sim. 8011	D4K20E-1D5A5-F
Z		waterblue	sim. 5021	D4K20E-1D5A5-Z

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. Volkmar	01.08.14	A. Richter	21.10.16	a00	16-s302	B. Döring	21.10.16

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