

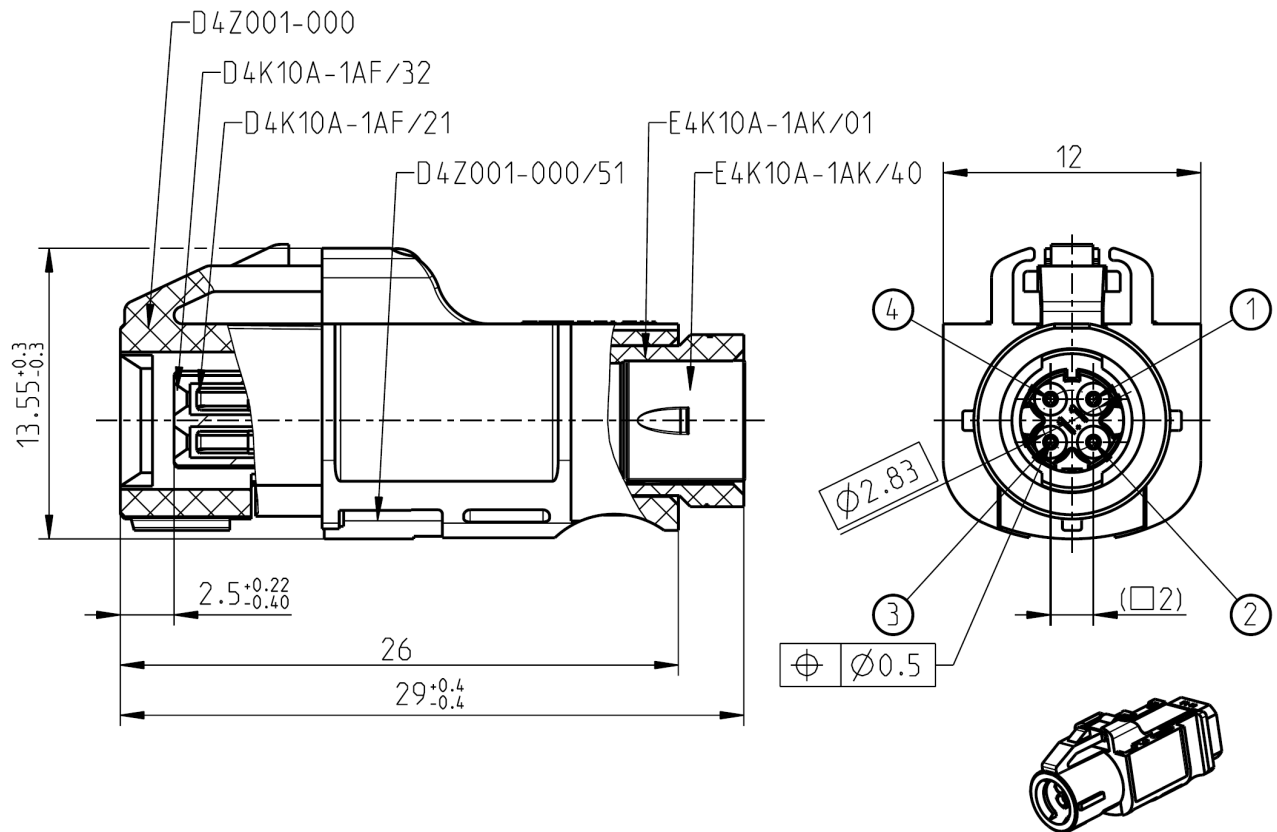
Technical Data Sheet

Rosenberger

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HSD®e

STRAIGHT JACK

E4K10A-1AKX5-Y



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

Interface

According to

RN_059-04

Documents

Assembly instruction

MA_E4V001

Pinning instruction

RN_053-01

Material and plating

Connector parts

Center contact
Dielectric
Housing
Secondary lock
Insert

Material

Spring bronze
PA 12
PBT
PBT
PBT

Plating

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

Preliminary

Electrical data

Impedance, differential mode	100Ω
Frequency	DC to 1 GHz
Return loss	≥ 25 dB to 100 MHz ≥ 15 dB to 500 MHz ≥ 10 dB to 1 GHz
Insertion loss	≤ 0.01 dB to 100 MHz ≤ 0.01 dB to 500 MHz
Skew (between signal contacts)	≤ 5 ps.
Near end-Crosstalk	≤ 30 dB (100 MHz)
Far end-Crosstalk	≤ 35 dB (100 MHz)
Insulation resistance	≥ 1x10 ³ MΩ
Signal contact resistance	≤ 10 mΩ
Test voltage	250 V rms
Working voltage	100 V rms
Power current	≤ 1.5 A DC

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Retention force primary lock	≥ 60 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 625
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Packing

Standard	not packed
Weight	3,25 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	E4K10A-1AKX5-A
B		white	sim. 9001	E4K10A-1AKX5-B
C		blue	sim. 5005	E4K10A-1AKX5-C
D		bordeaux	sim. 4004	E4K10A-1AKX5-D
E		green	sim. 6002	E4K10A-1AKX5-E
F		brown	sim. 8011	E4K10A-1AKX5-F
Z		waterblue	sim. 5021	E4K10A-1AKX5-Z
		traffic purple	sim. 4006	secondary lock

Preliminary

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
T. Bredbeck	13.01.12	J. Schröck	05.08.15	600	15-0518	M. Volkmar	05.08.15
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