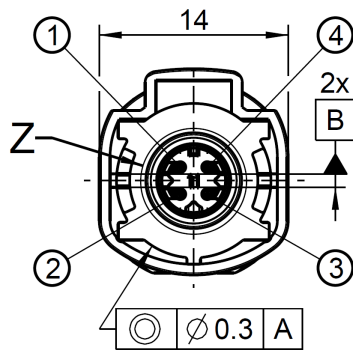
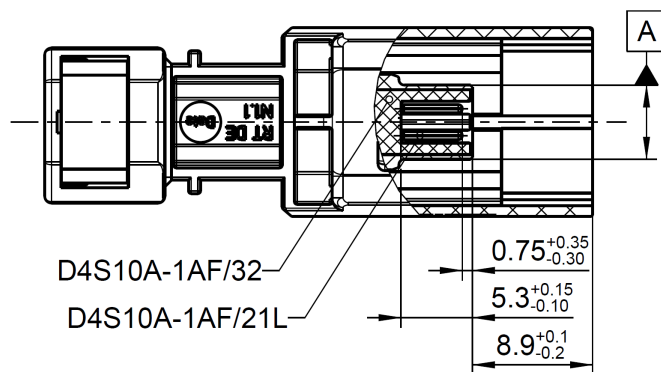
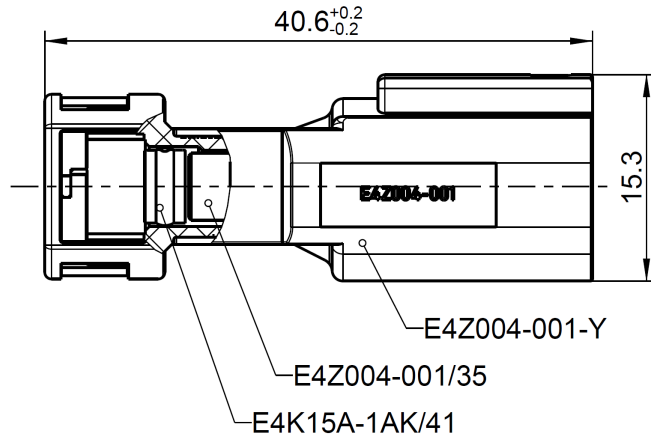
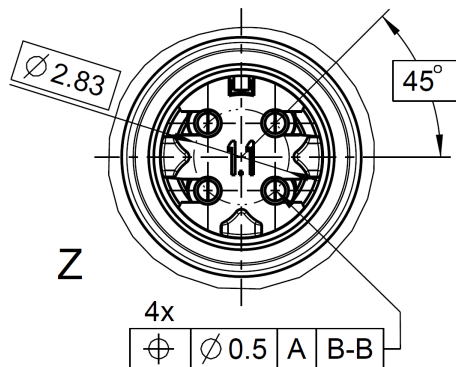




$\bigcirc$ = pinning



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

Interface

According to

RN_063-04

Remarks

Available Waterproof jack for the
Inline connection

E4K15A-1AKX5-Y

Documents

Assembly instruction
Pinning instruction
Test specification

MA_E4V006
RN_053-01
tbd.

Preliminary

Material and plating

Connector parts

Center contact
Dielectric
Spacer sleeve
Crimping ferrule
Housing
Clamp

Material

Spring bronze
PA12-GF30
PTFE
Spring bronze
PBT-I-GF30
PBT-GF10

Plating

Gold, min. 0.15 µm, over chemical nickel
Colour: green

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	≥ 5
Engagement force	≤ 40 N
Disengagement force	≥ 5 N
Retention force primary lock	≥ tbd.
Coding efficiency	≥ 80 N

Preliminary

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
Water resistant	DIN 40050 IPX6K/IPX9K
Waterproof engine compartment connector	LV 214 Test group B,C
RoHS	compliant

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RF_35/09.14/6.2

Technical Data Sheet		Rosenberger
Rosenberger HSD®e	WATERPROOF PLUG	E4S14A-1AKX5-Y

Tooling

Crimping tool	on request
Crimp insert	on request

Suitable cables

Cable type	Dacar 625-2
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Packing

Standard	not packed
Weight	4.35 g/pce

Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-number
A		black	sim. 9005	E4S14A-1AKX5-A
B		white	sim. 9001	E4S14A-1AKX5-B
C		blue	sim. 5005	E4S14A-1AKX5-C
D		bordeaux	sim. 4004	E4S14A-1AKX5-D
E		green	sim. 6002	E4S14A-1AKX5-E
F		brown	sim. 8011	E4S14A-1AKX5-F
Z		waterblue	sim. 5021	E4S14A-1AKX5-Z

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	20.06.12	J. Schröck	17.06.16	400	16-0940	S. Strom	17.06.16
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