

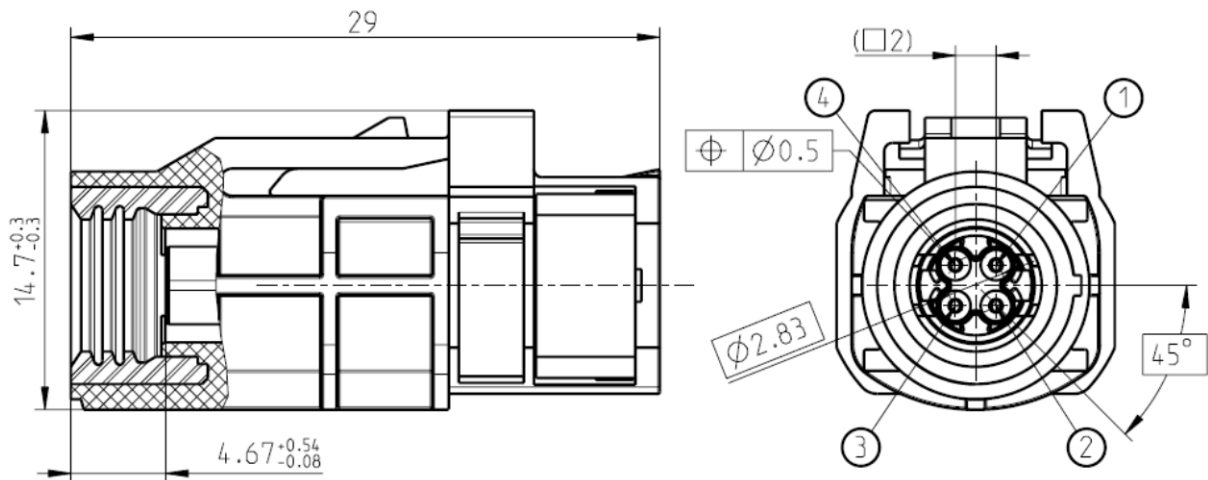
Technical Data Sheet

Rosenberger

Rosenberger
HSD®e

WATERPROOF
Jack

E4K15A-1AKX5-Y



○ = Pinbelegung
= pinning



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

Interface

According to RN 063-04

Remarks

Available Waterproof plug for the
Inline connection E4S14A-1AKX5-Y

Documents

Assembly instruction tbd.
Pinning instruction RN 053-01
Test specification tbd.

Preliminary

Material and plating

Connector parts

Center contact	Material
Crimping ferrule	Spring bronze
Dielectric1	tbd.
Dielectric2	PBT-GF23
Housing	PA
Retainer	PBT-GF23
Sealing ring	PA12
	Silicone

Plating

Gold, min. 0.15 µm, over chemical nickel

Electrical data

Impedance, differential mode	tbd
Frequency	tbd.
Return loss	tbd.
Insertion loss	tbd.
Skew (between signal contacts)	tbd.
Nearend-Crosstalk	tbd.
Farend-Crosstalk	tbd.
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
RF-leakage (shielding effectiveness)	tbd.

- 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

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 2002/95/EC (RoHS)	LV 214 Test group B,C compliant

Tooling

Crimping tool	on request
Crimp insert	on request

Suitable cables

Cable type	tbd.
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Packing

Standard
Weight

tbd.
tbd.

Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-number
A		black	sim. 9005	E4K15A-1AKX5-A
B		white	sim. 9001	E4K15A-1AKX5-B
C		blue	sim. 5005	E4K15A-1AKX5-C
D		bordeaux	sim. 4004	E4K15A-1AKX5-D
E		green	sim. 6002	E4K15A-1AKX5-E
F		brown	sim. 8011	E4K15A-1AKX5-F
Z		waterblue	sim. 5021	E4K15A-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	24.11.16	300	16-1968	R. Gnodtke	24.11.16

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