

Technical Data Sheet

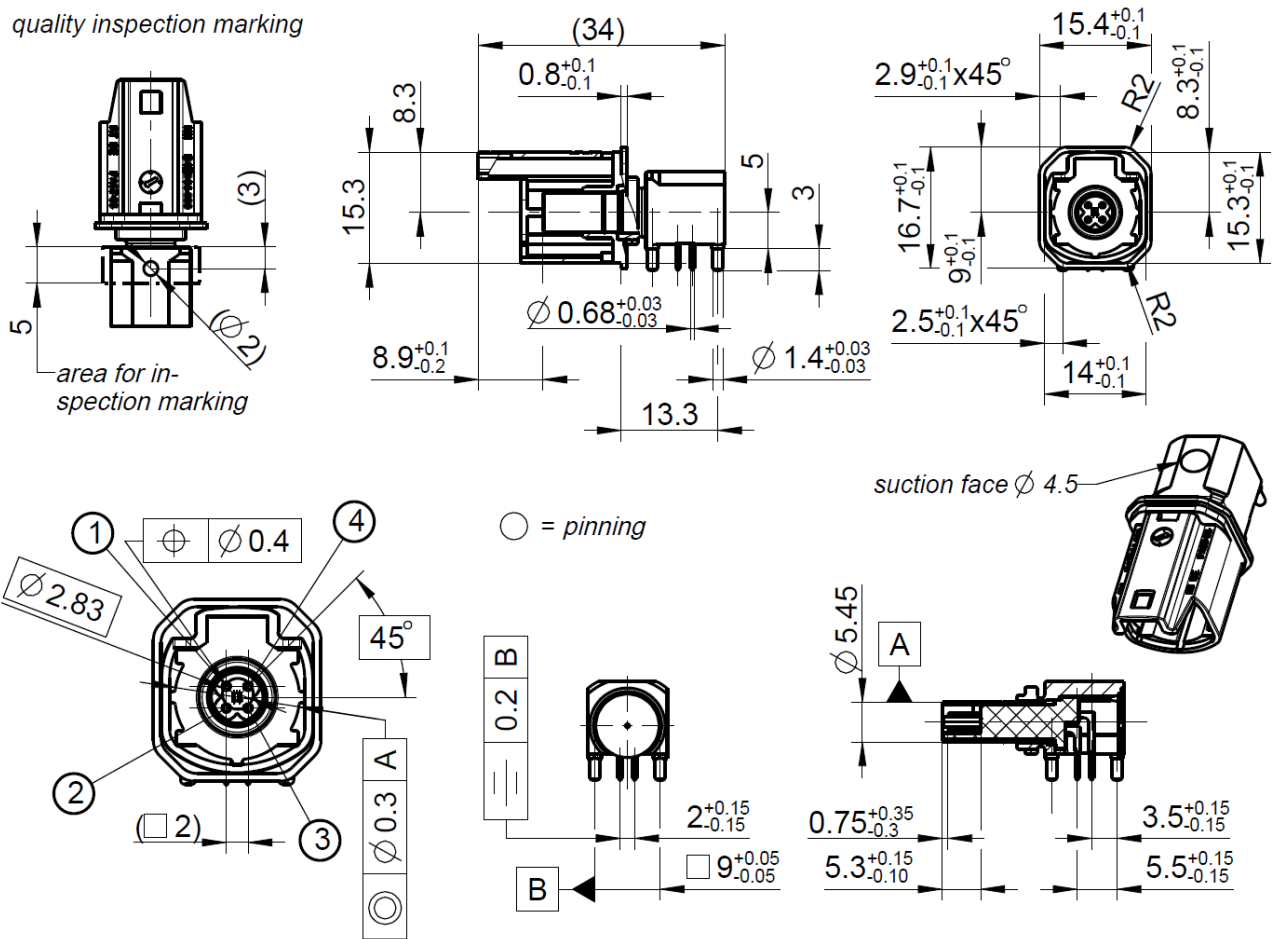
Rosenberger

Rosenberger
HSD®

RIGHT ANGLE PLUG
FOR PCB

D4S24D-400A5-Y

quality inspection marking



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

EMC-screening must be assured by chassis compartment. Control box manufacturer is responsible for EMC-screening.

The plastic housing has to be sealed to the chassis.

Interface

According to

RN_063-01 (f)

Remarks

Available Waterproof jack for the
Inline connection

D4K14A-1D5A5-Y

Documents

PCB Layout
Pinning instruction
Test specification

MB_770, (MB_261)* (e)
RN_053-01
RN_061-01

*do not use for new applications

Material and plating

Connector parts

Center contact

Outer contact 1 (Interface)

Outer contact 2 (PCB)

Cover

Dielectric

Housing

Material

Spring bronze

Brass

Zinc Alloy

Alpacca

LCP

PA6T/66

Plating

Gold, 0.15 µm (Interface)

Tin, 0.5-2 µm (PCB)

Nickel 3-6 µm

Tin, 6-8 µm

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

≥ 1x10³ 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

≤ 40 N

Disengagement force

≥ 5 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 (-40°C - +105°C)

Temperature humidity cycling

USCar 2 – 4 – 5.6.2 (test temperature 105°C)

Vibration

DIN IEC 60068-2-64 (class 2)

Mechanical Shock

DIN IEC 60068-2-27

Dry Heat

DIN IEC 60068-2-2 (temperature 105°C)

Max. soldering temperature

+260°C for 10 sec.

Water resistant

DIN 40050 IPX6K/IPX9K

Waterproof engine compartment connector

LV 214 Test group B, C

RoHS

compliant

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D4S24D-400A5-Y

Tooling

N/A

Suitable cables

N/A








Packing

Standard
Weight

25 pcs in blister
9.5 g/pce

Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S24D-400A5-A
B		white	sim. 9001	D4S24D-400A5-B
C		blue	sim. 5005	D4S24D-400A5-C
D		bordeaux	sim. 4004	D4S24D-400A5-D
E		green	sim. 6002	D4S24D-400A5-E
F		brown	sim. 8011	D4S24D-400A5-F
Z		waterblue	sim. 5021	D4S24D-400A5-Z

Change History

Rev.	Date	Change
e00	22.10.18	Changed PCB Layout to MB_770 for new applications
f00	28.08.23	Changed Interface According to RN_63-01

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. Singhammer	21.11.07	M. Lenger	28.08.23	f00	23-0851	P. Schroeder	28.08.23

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