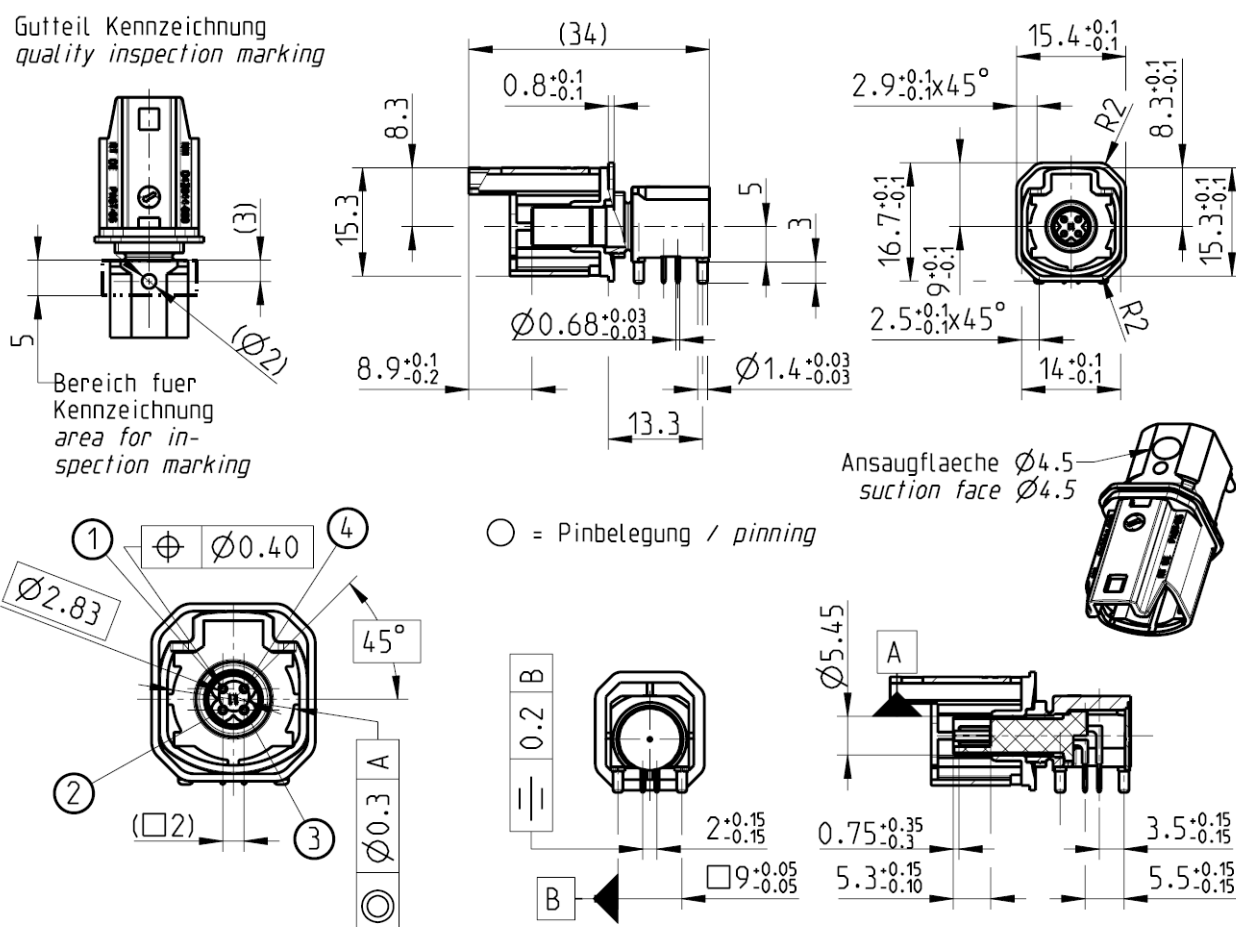




All dimensions are in mm; tolerances according to ISO 2768 m-H

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 061-01

Remarks

Available Waterproof jack for the
Inline connection

D4K14A-1D5A5-Y

Documents

Assembly instruction

MA D4V024

PCB layout

MB 261

Pinning instruction

RN 053-01

Test specification

RN 061-01

Material and plating

Connector parts

Center contact

Outer contact 1 (Interface)

Outer contact 2 (PCB)

Cover

Dielectric

Housing

Material

Spring bronze

Brass

Zinc Alloy

Alpaca

LCP

PA 6T/66

Plating

Gold, 0.15 µm (Interface)

Tin, 0.5-2 µm (PCB)

Nickel, 2.5-5 µm

Tin, 6-8 µm

Electrical data

Impedance, differential mode

Frequency

Return loss

Insertion loss

Skew (between signal contacts)

Nearend-Crosstalk

Farend-Crosstalk

Insulation resistance

Signal contact resistance

Outer contact resistance

Test voltage

Working voltage

Power current

RF-leakage (shielding effectiveness)

100 Ω differential signalling, for one pair or quad cable shielded

DC to 2.0 GHz

≥ 20 dB to 1.0 GHz

≥ 17 dB to 2.0 GHz

≤ 0.1 dB @ 1.0 GHz

≤ 5 psec.

≤ 30 dB

≤ 35 dB

≥ 1x10³ MΩ

≤ 10 mΩ

≤ 7.5 mΩ

250 V rms

100 V rms

≤ 1.5 A DC

≥ 75 dB up to 1 GHz (IEC 62153-4-7)

≥ 65 dB up to 2 GHz (IEC 62153-4-7)

Mechanical data

Mating cycles

Engagement force

Disengagement force

Retention force primary lock

Coding efficiency

≥ 25

≤ 40 N

≥ 5 N

≥ 80 N

≥ 80 N

Environmental data

Temperature range

Thermal shock

Temperature humidity cycling

Vibration

Mechanical shock

Dry Heat

Max. soldering temperature

Water resistant

Waterproof engine compartment connector
2002/95/EC (RoHS)

-40°C to +105°C

DIN IEC 60068-2-14 (-40°C - +105°C)

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

DIN IEC 60068-2-64 (class 2)

DIN IEC 60068-2-27

DIN IEC 60068-2-2 (temperature 105°C)

+260°C for 10 sec.

DIN 40050 IPX6K/IPX9K

LV 214 Test group B,C
compliant

**HSD RIGHT ANGLE PLUG
FOR PCB**
D4S24D-400A5-Y
Tooling

N/A

Suitable cables

N/A

Packing

Standard

25 pcs in blister

Weight

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

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	Lankes	26.06.10	c00	10-0408	M. Pemwieser	10/06/10

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