

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.

Interface

According to RN 059-02

Documents

Pinning instruction RN 053-01
 Panel piercing MB 427
 Test Specification RN 061-01
 Tape and reel packaging VG226.13500

Material and plating

Connector parts

Center contact

Outer contact (Interface)

Outer contact (PCB)

Dielectric

Plastic housing

Material

Spring bronze

Brass

Zinc Alloy

LCP

HTN

Plating

Gold, 0.15 μ m (Interface)

Tin, 0.5-2 μ m (PCB)

Nickel, 3-6 μ m

Tin, 2-8 μ m, over nickel

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	≥ 1x10 ³ 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 each contact	≤ 30 N
Disengagement force each contact	≥ 5 N
Retention force latch	≥ 110 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 (b)

Packing

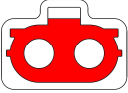
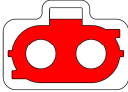
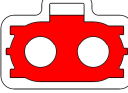
Standard	25 pcs in Blister; 135 pcs on tape & reel
Weight	11.8 g/pce

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RF_35/05:10/6.0

Coding

Part Number has to be accomplished by codification

Additional coding	Plug	Colour	RAL	Part-Number
A		deep black	sim. 9005	D4S20W-40MA5-A
B		cream	sim. 9001	D4S20W-40MA5-B
C		signal blue	sim. 5005	D4S20W-40MA5-C
D		claret violet	sim. 4004	D4S20W-40MA5-D
E		leaf green	sim. 6002	D4S20W-40MA5-E
F		nut-brown	sim. 8011	D4S20W-40MA5-F
Z		waterblue	sim.5021	D4S20W-40MA5-Z

Change History

Rev.	Date	Change
b00	24.07.13	Environmental data specification changed from "2002/95/EC (RoHS)" to "RoHS" Position of center of gravity added in drawing

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. Höfling	02/08/12	T. Höfling	24/07/13	b00	13-0824	U. Hasenöhrl	24/07/13

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