

○ = Pinbelegung / pinning

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

Interface

According to RN 059-03

Documents

Assembly instruction D4V007
 Pinning instruction RN 053-01
 Test Specification RN 061-01

Preliminary

Material and plating

Connector parts

Center contact
 Outer contact
 Contact sleeve
 Dielectric
 Crimping ferrule
 Housing
 Secondary lock

Material

Spring bronze
 Brass
 Spring bronze
 PA 12
 Spring bronze
 PBT
 PBT

Plating

Contact=Gold min. 0.15µm; Crimp=Sn min. 1µm
 Nickel, 2.5-5 µm
 Nickel, 2.5-5 µm
 Tin, 1,5-3µm

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	$\geq 1 \times 10^3$ M Ω
Signal contact resistance	≤ 10 m Ω
Outer contact resistance	≤ 7.5 m Ω
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
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 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
2002/95/EC (RoHS)	compliant

Tooling

Crimping tool	on request
Crimp insert	on request

Suitable cables

Cable type	Dacar 535
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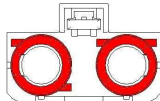
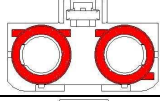
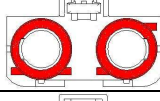
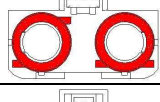
Packing

Standard	TBD pcs in box
Weight	10,60 g/pce

Preliminary

Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-Number
A		graphite black	sim. 9011	D4K10D-1D5A5-A
B		natural	sim. 9001	D4K10D-1D5A5-B
C		light blue	sim. 5012	D4K10D-1D5A5-C
D		bordeaux violet	sim. 4004	D4K10D-1D5A5-D
E		may green	sim. 6017	D4K10D-1D5A5-E
F		nut brown	sim. 8011	D4K10D-1D5A5-F
Z		waterblue	sim. 5021	D4K10D-1D5A5-Z
		traffic purple	sim. 4006	secondary lock

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
W Lankes	17/08/09	W. Lankes	15/12/11	100	11-v547	Volker Pangritz	15/12/11