



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 059-03

**Documents**

Pinning instruction RN\_053-01  
Panel piercing MB\_353  
Test specification RN 061-01

**Material and plating**

**Connector parts**  
Center contact

**Material**  
Spring bronze

**Plating**  
Gold, 0.15  $\mu\text{m}$  (Interface)  
Tin, 0.5-2  $\mu\text{m}$  (PCB)

Outer contact 1 (Interface)  
Outer contact 2 (PCB)  
Dielectric  
Plastic housing

Brass  
Zinc Alloy  
LCP  
PA 10T/X

Nickel, 2-4 $\mu\text{m}$   
Tin, 2-4 $\mu\text{m}$ , over nickel



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RF\_35/05.10/6.0

**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 <sup>3</sup> 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)

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	200 pcs in tape & reel
Weight	14.9 g/pce

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