



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 059-01

Documents

| | |
|-----------------------|------------|
| Assembly instruction | D4V010 |
| Pinning instruction | RN 053-01 |
| Panel piercing | MB_215 |
| Test specification | RN 061-01 |
| Tape & Reel packaging | VG96.20000 |

Material and plating

Connector parts

Center contact

Material

Spring bronze

Plating

Gold, 0.15 µm (Interface)

Outer contact

Brass

Tin, 0.5-2 µm (PCB)

Ni 3-6µm (Interface) b

Tin 3-6µm (PCB)

Dielectric

LCP

Housing

PA 6T/66

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 | ≤ 30 N |
| Disengagement force | ≥ 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 on tape & reel |
| Weight | 6.84 g/pce |

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