



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

Interface

RPC-N according to

IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/304

Documents

N/A

Material and plating

Connector parts

- Center contact
- Outer contact
- Coupling nut
- Dielectric

Material

- Beryllium copper
- Stainless steel
- Stainless steel
- PPE

Plating

- Gold, min. 1.27 μm , over chemical nickel
- Passivated
- Passivated

ADAPTOR
SnapN 50Ω JACK - RPC-N 50Ω PLUG

53QK105-S00S3

Electrical data

Impedance 50 Ω
 Frequency DC to 18 GHz
 Return loss ≥ 28 dB, DC to 11 GHz
 ≥ 26 dB, 11 GHz to 18 GHz
 Insertion loss ≤ 0.05 dB x √ f [GHz] dB
 Insulation resistance ≥ 5 GΩ
 Center contact resistance ≤ 1 mΩ
 Outer contact resistance ≤ 1 mΩ
 Test voltage (at sea level) 2500 V rms
 Working voltage (at sea level) 500 V rms
 RF-leakage ≥ 90 dB @ DC to 1 GHz

Mechanical data

Mating cycles RPC-N ≥ 500
 Mating cycles SnapN ≥ 200
 Center contact captivation ≥ 28 N
 Coupling test torque RPC-N 1.70 Nm
 Recommended torque RPC-N 0.70 Nm to 1.10 Nm
 Engagement force SnapN 30 N typical
 Disengagement force SnapN 30 N typical

Environmental data

Temperature range -40°C to +85°C
 Thermal shock IEC 61169-1, Subclause 9.4.4
 Corrosion IEC 61169-1, Subclause 9.4.6
 Vibration IEC 61169-1, Subclause 9.3.3
 Shock IEC 61169-1, Subclause 9.3.14
 Moisture resistance IEC 61169-1, Subclause 9.4.3
 RoHS compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 49.5 g/pce

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
Andreas Fellner	22/11/04	J_Gramsamer	31.03.15	c00	15-0397	J_Krautenbacher	31.03.15