

Mechanical & Environmental Data

| Parameter | Typical values | Norm |
|---|---|--|
| Mating cycles | 5000 | |
| Temperature range - 1051 A004-3 - 1051 A004-4 - 1051 A004-9 | -55°C to + 135°C -55°C to + 135°C -40°C to + 85°C | |
| Vibration | 10 to 2000 Hz, 1.5 mm or 20 g, no discontinuity > 1 µs | EIA-364-28, Test cond. IV (MIL-STD-1344, Method 2005 superseded) |
| Protection level SE, KE, DKE | IP68 (2m/24h) when mated or with fitted sealing caps | IEC 60529 |
| Corrosion, salt spray | 96 h with 5% salt solution at 35°C | IEC 60068-2-11, Test Ka MIL-STD-202, Method 101, cond. A |

Material & Surface Treatments

| Part | Materials | Finish |
|--|--|--|
| Housings - 1051 A004-3 - 1051 A004-4 - 1051 A004-9 | Brass Brass Brass, Steel, PA | Chrome over Nickel Chrome over Nickel Nickel |
| Housing accessories | Brass | Nickel |
| Inner contact | Bronze | Gold over Nickel |
| Crimp contact | Brass | Gold over Nickel |
| Outer contact | Brass | Gold over Nickel |
| Ground contact | Brass | Nickel |
| Insulators - 1051 A004-3 - 1051 A004-4 - 1051 A004-9 | PTFE, PCTFE, PP-H PTFE, PCTFE, PP-H POM, PP-H, PEI | - - - |
| Washers | PEEK, PET | - |
| O-ring seals | NBR, NBR Low Temp | - |
| Cable seal and protections | TPE | - |

Our products are RoHS compliant

Electrical Data

| Parameter | Typical values | Norm |
|--|---------------------------|--|
| Nominal impedance | 75 Ω | |
| Test voltage at sea level (mated) - Center to outer contact - Outer to ground contact | 1.7 kVAC 1.0 kVAC | IEC 60512-4-1, Test 4a, Method c |
| Current rating per contact | 14 A | IEC 60512-5-2, Test 5b |
| Contact resistance - Center contact - Outer contact - Ground contact | <3 mΩ <0.5 mΩ <5 mΩ | IEC 60512-2-1, Test 2a IEC 60512-2-2, Test 2b |
| Insulation resistance | > 10 ¹⁰ Ω | IEC 60512-3-1, Test 3a |
| VSWR (Voltage Standing Wave Ratio) - 0 to 250 MHz - 250 to 1300 MHz | < 1.05 < 1.2 | |