

Materials :

| Connector part | Material | Finish |
|----------------|---|--------------------------------------|
| Bodies | Brass Stainless Steel | Nickel or Gold Passivated or Gold |
| Center Contact | Male: Brass Female: Beryllium copper | Gold |
| Insulator | Teflon | N/A |
| Crimp ferrule | Annealed Copper | Nickel or Gold |

Electrical :

| Electrical Data | Detail | | |
|---------------------------------|---|-------------|-------------|
| Impedance | 50 ohm | | |
| Frequency range | Flexible cable: 0~12.4GHz Semi-rigid cable: 0~18GHz | | |
| Working voltage | RG402 (.141") → 500 volts rms max. RG405 (.085") → 335 volts rms max. RG58, 141, 142, 223/U → 500 volts rms max. RG174, 188, 316/U → 335 volts rms max. RG178, 196/U → 250 volts rms max. | | |
| Insulation resistance | 5,000 megohms min. | | |
| Dielectric withstanding voltage | RG402 (.141") → 1,000 volts rms max. RG405 (.085") → 750 volts rms max. RG58, 141, 142, 223/U → 1,000 volts rms max. RG174, 188, 316/U → 750 volts rms max. RG178, 196/U → 500 volts rms max. | | |
| Contact resistance | Center contact: 3.0 Milliohms max. Outer contact: 2.0 Milliohms max. | | |
| VSWR: f (GHz) | RG178/U | Straight | Right angle |
| | RG174, 316/U | 1.20+0.025f | 1.20+0.03f |
| | RG58, 141, 142, 223/U | 1.15+0.02f | 1.15+0.03f |
| | RG402 (.141") | 1.10+0.01f | 1.15+0.02f |
| | RG405 (.085") | 1.05+0.005f | 1.15+0.15f |
| | | 1.05+0.005f | 1.18+0.15f |
| Insertion loss | 0.04 dB maximum x \sqrt{f} GHz (straight) 0.06 dB maximum x \sqrt{f} GHz (right angle) | | |

Mechanical :

| Mechanical Data | Detail |
|-----------------------|--|
| Engagement force | 60 lbs min. |
| Disengagement force | 15 inch-pound |
| Connector durability | 500 cycles min. |
| Cable retention force | RG58, 141, 142, 223/U → 40 lbs min. RG174, 188, 316/U → 20 lbs min. |

Environmental :

| Environmental Data | Detail |
|------------------------|---|
| Corrosion (Salt spray) | MIL-STD-202 METHOD 101 TEST CONDITION B |
| Thermal shock | MIL-STD-202 METHOD 107 TEST CONDITION B |
| Vibration | MIL-STD-202 METHOD 204 TEST CONDITION D |
| Mechanical shock | MIL-STD-202 METHOD 213 TEST CONDITION I |
| Temperature range | -65°C to 165°C |