

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)	<table border="1"> <thead> <tr> <th></th> <th>Straight</th> <th>Right angle</th> </tr> </thead> <tbody> <tr> <td>RG178/U</td> <td></td> <td></td> </tr> <tr> <td>RG174, 316/U</td> <td>1.20+0.025f</td> <td>1.20+0.03f</td> </tr> <tr> <td>RG58, 141, 142, 223/U</td> <td>1.15+0.02f</td> <td>1.15+0.03f</td> </tr> <tr> <td>RG402 (.141")</td> <td></td> <td></td> </tr> <tr> <td>RG405 (.085")</td> <td>1.10+0.01f</td> <td>1.15+0.02f</td> </tr> <tr> <td></td> <td>1.05+0.005f</td> <td>1.15+0.15f</td> </tr> <tr> <td></td> <td>1.05+0.005f</td> <td>1.18+0.15f</td> </tr> </tbody> </table>		Straight	Right angle	RG178/U			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")			RG405 (.085")	1.10+0.01f	1.15+0.02f		1.05+0.005f	1.15+0.15f		1.05+0.005f	1.18+0.15f
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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