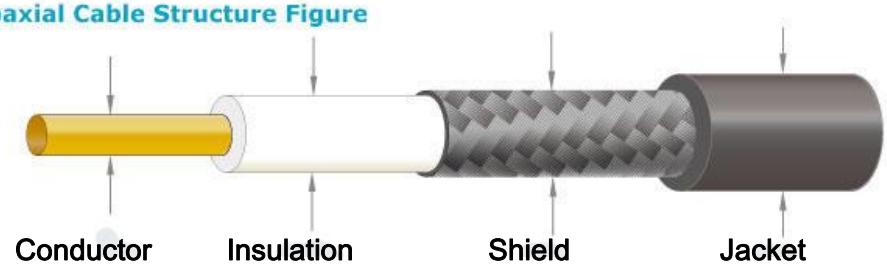
RG316 Flexible Cable Assembly

RoHS

Part No.: WLC-F1111-XXX

RG316 SMA Male to SMA Male Cable Assembly

Coaxial Cable Structure Figure



Actual Cable Section Illustration

Construction

Conductor	Insulation	Shield	Jacket
Material: Silver-Coated Copper Clad Steel Conductor No: 7 Construction Size: 0.175mm Diameter:0.53mm (0.021”)	Material: FEP Average Thickness: 0.51mm Diameter: 1.53±0.03mm (0.06”)	Material: Silver-Coated Copper Construction: 16/5/0.10mm Coverage: 95% Diameter: 1.98±0.05mm (0.078”)	Material: FEP Average Thickness: 0.30mm Overall Diameter: 2.53±0.10mm (0.1”)

Electrical Characteristics

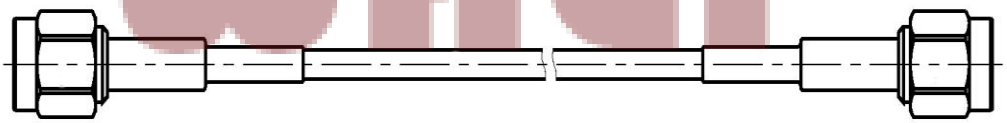
Frequency	Attenuation(dB/m)
1GHZ	1.25
1.8GHZ	1.51
2.4GHZ	1.71
3GHZ	1.92

Description	Specification
Impedance	50 ± 3 Ω
Conductor Resistance	302 Ω/km/20°C Max.
Insulation Resistance	3000 MΩ/km Min.
Capacitance	95.8 ± 3 pF/m
Dielectric Strength	AC 1 KV/Minute
Spark Test	5 KV
Velocity of Propagation	69 %

Physical Characteristics

Description	Specification		
Rating Temp Voltage	105°C 30V		
Insulation	Unaged	Tensile Strength	2500 Psi Min. (1.76 Kg /mm^2)
		Elongation	200% Min.
	Aged	Tensile Strength	Unaged Min. 75% (168hrs×232°C)
		Elongation	Unaged Min. 75% (168hrs×232°C)
Jacket	Unaged	Tensile Strength	2500 Psi Min. (1.76 Kg /mm^2)
		Elongation	200% Min.
	Aged	Tensile Strength	Unaged Min.75% (168hrs×232°C)
		Elongation	Unaged Min.75% (168hrs×232°C)

Schematic Drawing



Remark: Estimation of Cable Assembly Loss = Connector Loss + Assembly Loss + Cable Loss