

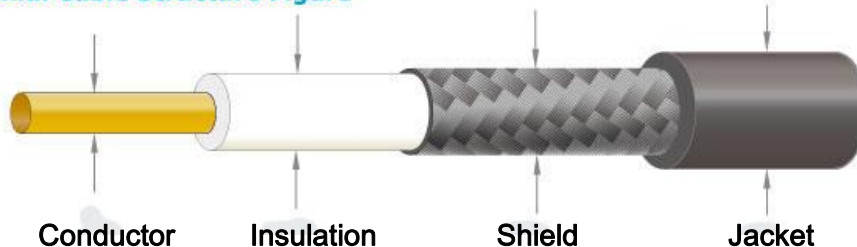
# RG178 Flexible Cable Assembly



**Part No.: WLC-Q1235-XXX**

**50Ω RG178 SMA Female to IPEX Male Cable Assembly**

Coaxial Cable Structure Figure



Actual Cable Section Illustration



## Construction

Conductor	Insulation	Shield	Jacket
Material: Silver Coated Copper Clad Steel	Material: FEP	Material: Silver Coated Copper	Material: FEP
Conductors No: 7	Average Thickness: 0.28mm	Construction: 16/3/0.10mm	Average Thickness: 0.25mm
Construction Size: 0.102±0.003mm	Diameter: 0.86±0.03mm (0.034")	Coverage:95%	Diameter: 1.8±0.06mm (0.071")
Diameter:0.31mm (0.012")		Diameter: 1.3±0.04mm (0.051")	

## Electrical Characteristics

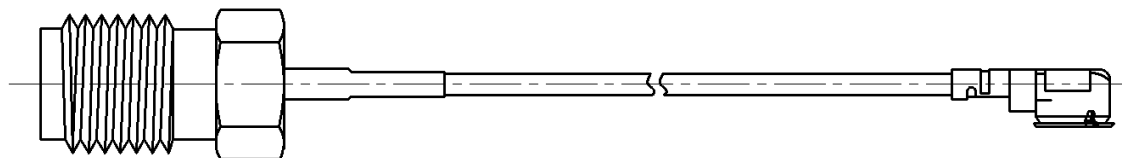
Frequency	Attenuation(dB/m)
1.0GHz	1.71
1.8GHz	2.69
2.4GHz	3.12
3.0GHz	3.58
5.2GHz	4.72
6.0GHz	5.18

Description	Specification
Impedance	50 ± 3Ω
Capacitance	95.8 ± 3 pF/m
Velocity of Propagation	69.5%
Rating Temp Voltage	105°C 30V
Spark Test	2.5KV

## Physical Characteristics

Description	Specification		
Insulation	Unaged	Tensile Strength	2500 Psi Min. (1.76 Kg/mm <sup>2</sup> )
		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 <sup>2</sup> )
		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