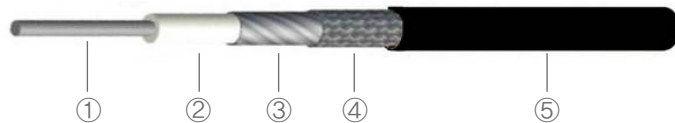


GUL180 & GUL310 Cable

► Features and benefits

- Frequency ranges from DC to 18 GHz
- Low Loss and Flexibility
- Excellent shielding effectiveness
- Cost-efficient
- Ultra low density PTFE(taped) dielectric
- Excellent phase stability and lowest insertion loss
- Durability

► Cable Design



Description		Diameter (mm)	
		GUL180C	GUL310C
① Center conductor	Silver-plated copper wire, solid	1.29	2.35
② Dielectric	Ultra low density PTFE(taped)	-	-
③ Inner shield	Silver-plated copper tape	-	-
④ Outer shield	Silver-plated copper braid	-	-
⑤ Jacket	Extruded FEP	5.00	7.90

Electrical

Impedance	50 Ω
Operating frequency	18 GHz
Capacitance	78 pF/m
Velocity of propagation	84 % nom.
Time delay	3.95 ns/m
RF leakage (dB)	-100
Dielectric constant	1.4
Phase stability vs. flexure (@18 GHz max.)	3°
IL stability vs. flexure (dB @minimum BR)	± 0.1
Phase stability vs. temp. (deg/GHz/m) (-40 ~ 80°)	< 2°

Mechanical & Environmental

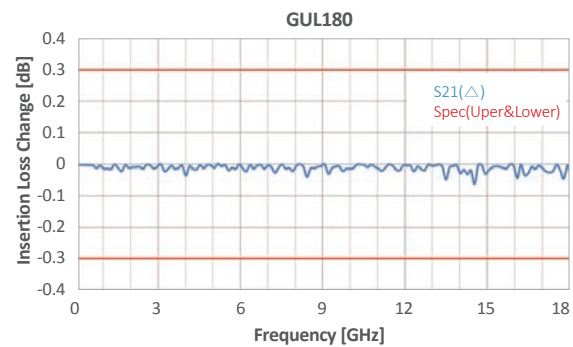
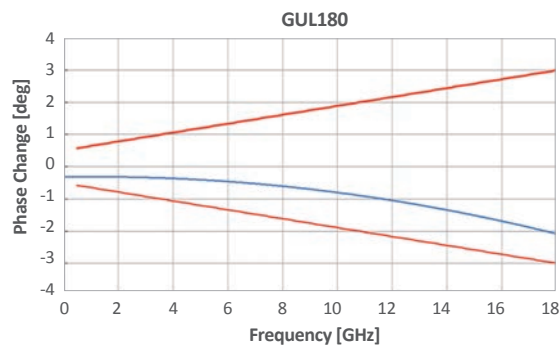
GUL180C		
Minimum bend radius (mm)	25.4	48.5
Weight (g/m)	51	115
Temperature	-55°C to + 165°C	-55°C to + 165°C

Suitable Connectors

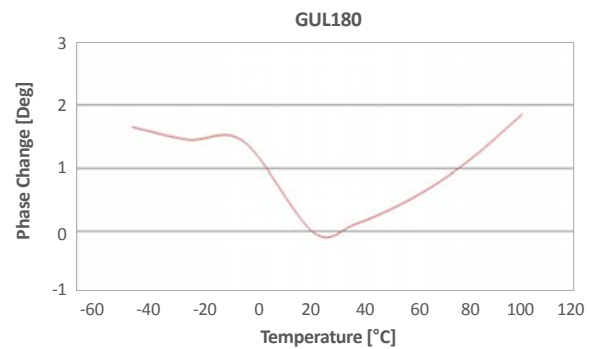
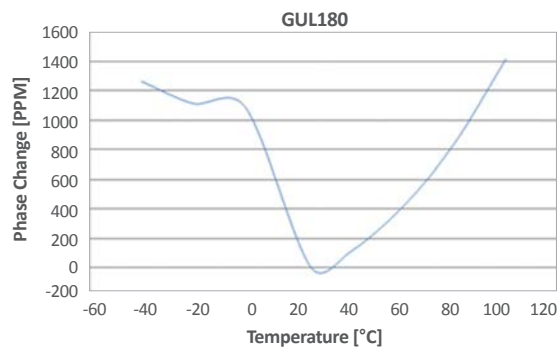
Cable selection			Standard Connector selection				
			SMA type		N type		
P/N	Frequency	Attenuation (dB/m)	Straight	R/A	Straight	R/A	Drawing Page
GUL180C	18 GHz	1.22	SMS119	SMR119	NMS119	NMR119	-
GUL310C	18 GHz	0.78	SMS120	SMR120B*	NMS120	NMR120B*	83p

* XXXXXXB : Shrink Tube Type ex) SMR120B

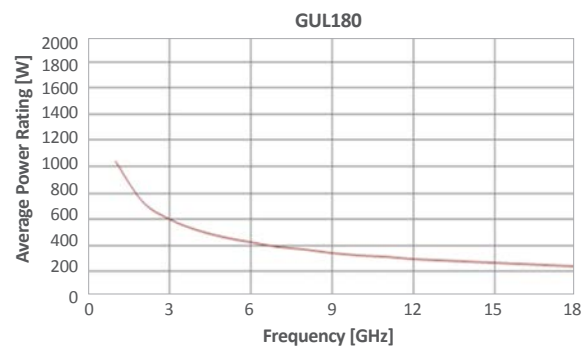
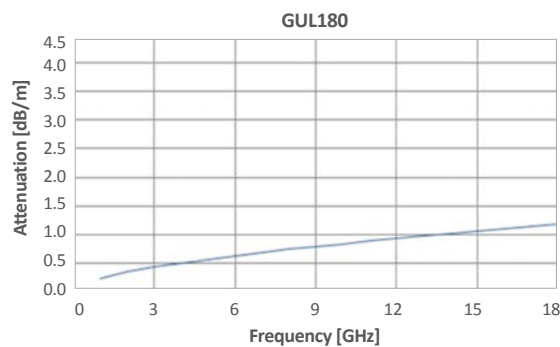
► Cable Insertion & Stability with Flexure



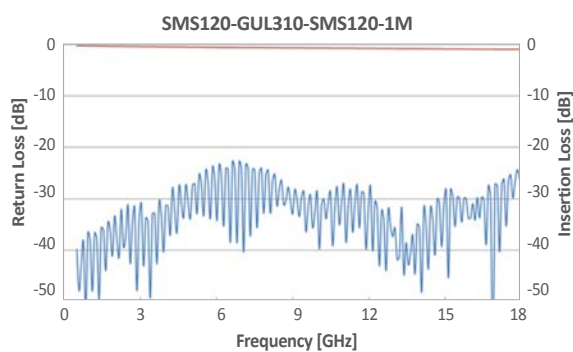
► Cable Phase Stability with Temperature



► Cable Attenuation & Power

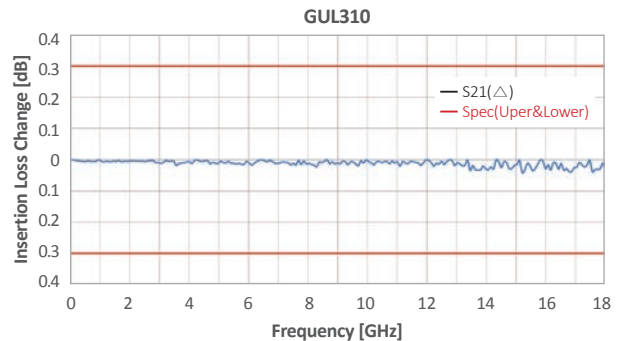
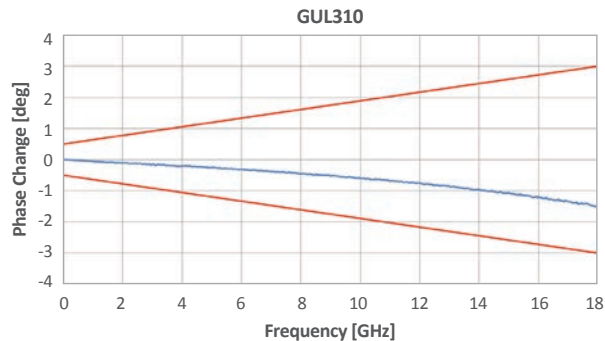


► Test Result

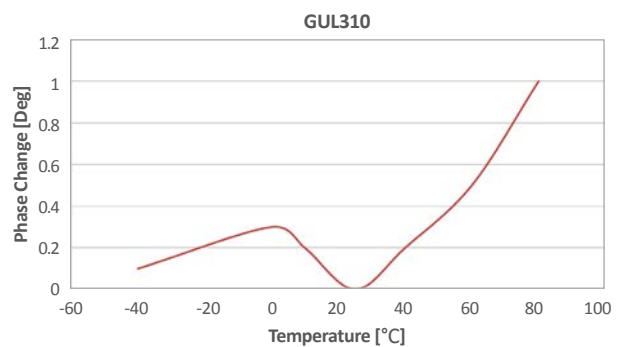
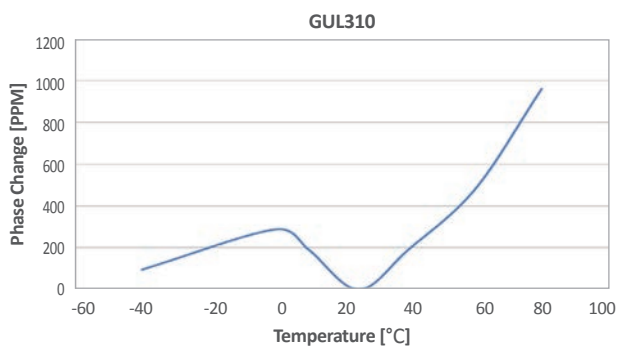


GUL310 Cable

► Cable Insertion & Stability with Flexure



► Cable Phase Stability with Temperature



► Cable Attenuation & Power

