

# Flexible Ultra Low Loss Cable GUL310

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## ► Features and benefits

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

## ► Cable Design



Description		Diameter (mm)
① Center conductor	Silver-plated copper wire, Solid	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	7.90

Electrical	
Impedance	50 Ω
Operating frequency	DC to 18 GHz
Capacitance	78 pF/m
Velocity of propagation	84 % nom.
Time delay	3.95 ns/m
RF leakage	<-100 dB
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	
Minimum bend radius	48.5 mm
Weight	115 g/M
Temperature	-55°C to + 165°C

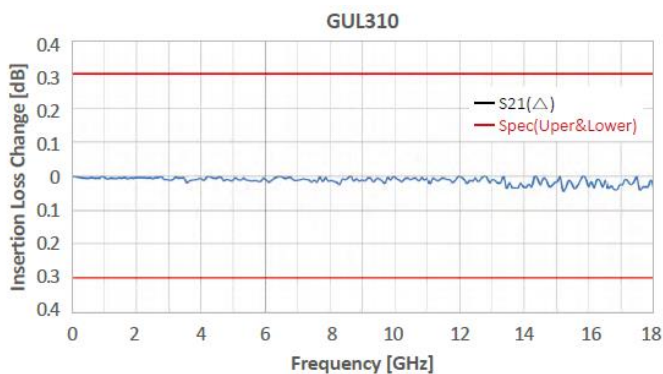
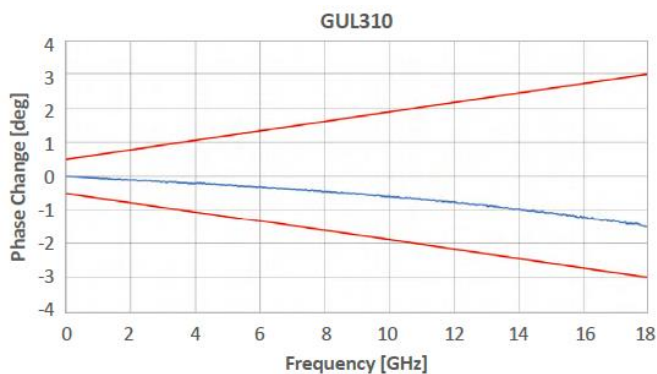
Suitable Connectors									
Cable Selection			Standard Connector selection				Max. VSWR Connector		
			SMA type		N-type				
P/N	Frequency (GHz)	Atten (dB /M)	Straight	R/A	Straight	R/A	ST to ST	ST to R/A	R/A to R/A
GUL310C	18	0.78	SMS120	SMR120B	NMS120	NMR120B	1.25	1.35	1.45

\* xxxxxxB : Shrink Tube Type ex) SMS114B

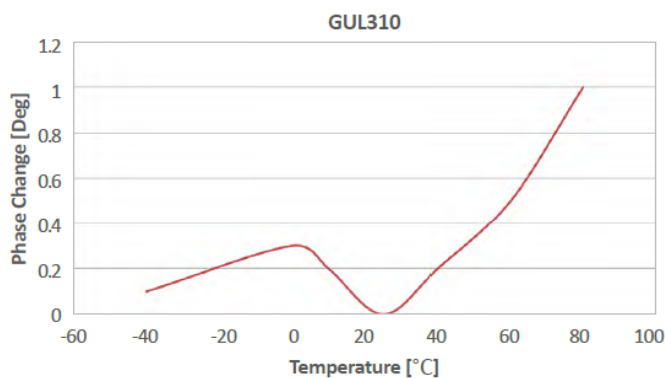
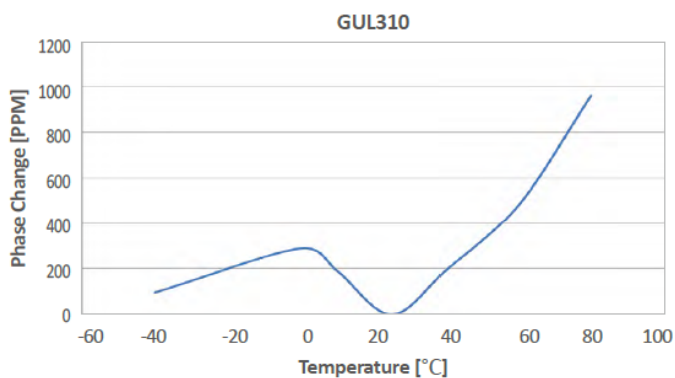
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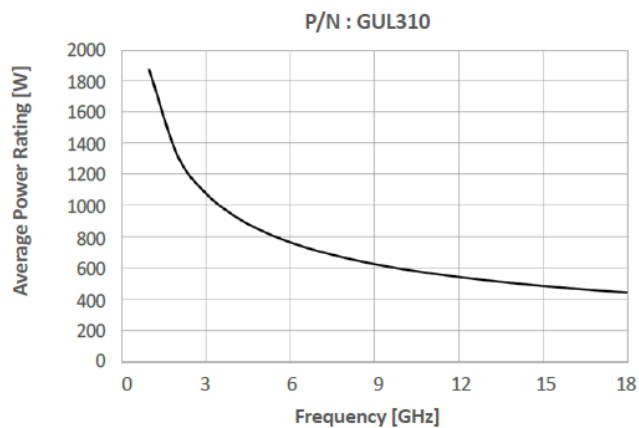
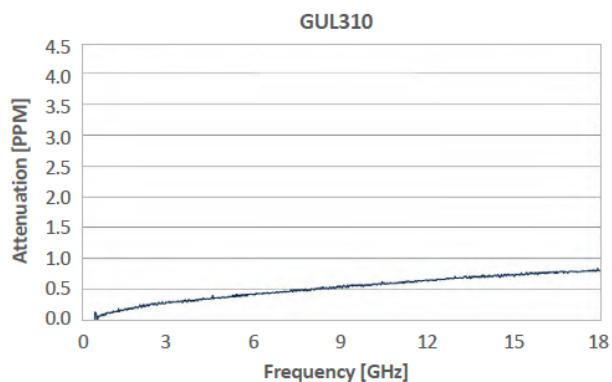
## ► Cable Insertion & Phase Stability with Flexure



## ► Cable Phase Stability with Temperature



## ► Cable Attenuation & Power



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## ► Test Result

