

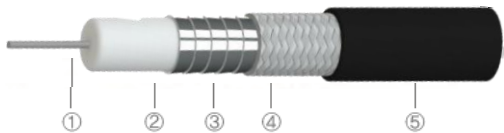
Flexible Low Loss Cable

GL310

Features and benefits

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

Cable Design



Description		Diameter (mm)
① Center conductor	Silver-plated copper wire, Solid	2.10
② Dielectric	Extrude PTFE	-
③ Inner shield	Silver-plated copper tape	-
④ Outer shield	Silver-plated copper braid	-
⑤ Jacket	Extruded FEP	7.80

Electrical	
Impedance	50 Ω
Operating frequency	DC to 18 GHz
Capacitance	85 pF/m
Velocity of propagation	77 % nom.
Time delay	4.35 ns/m
RF leakage	< -90 dB
Dielectric constant	1.7
Phase stability vs. flexure (@18 GHz max.)	± 7°
IL stability vs. flexure (dB @minimum BR)	± 0.1
Phase stability vs. temp. (deg/GHz/m) (-40 ~ 80°)	< 2°

Mechanical & Environmental	
Minimum bend radius	40 mm
Weight	151 g/M
Temperature	-45°C to + 125°C

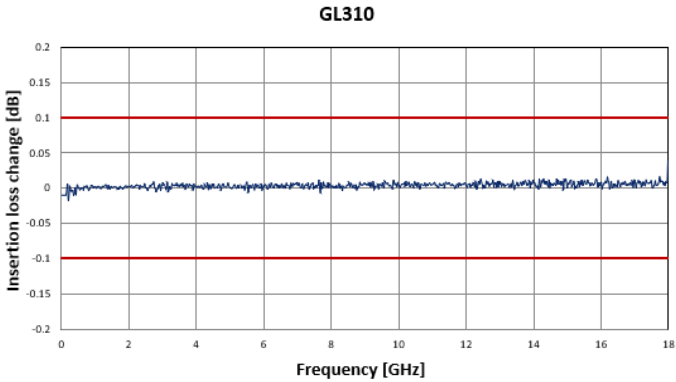
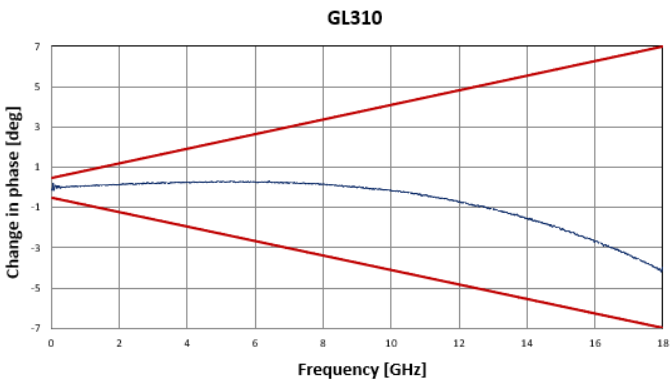
Suitable Connectors

Cable Selection			Standard Connector selection		Max. VSWR
			SMA type	N-type	
P/N	Frequency (GHz)	Atten (dB /M)	Straight	Straight	Connector
GL310C	18	0.81	G06SMC117	G07SMC079	ST to ST
					1.25

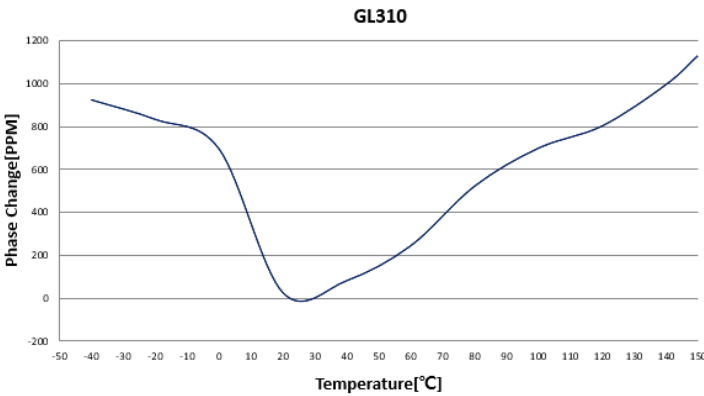
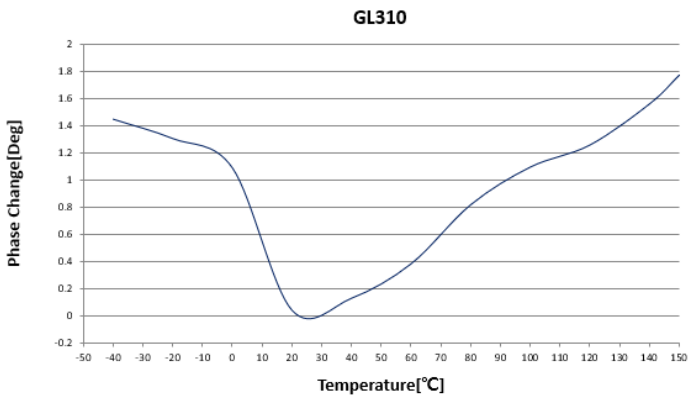
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www.gigalane.com

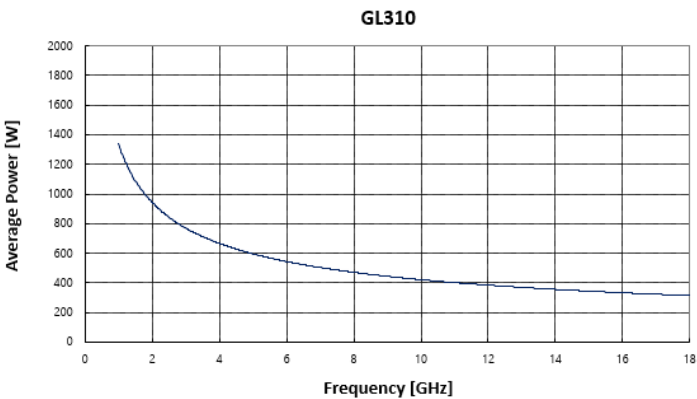
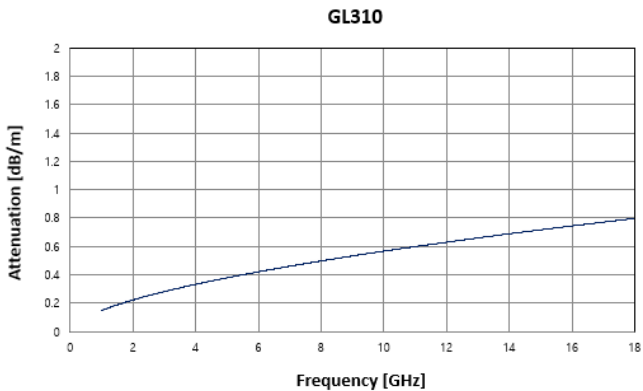
Cable Insertion & Phase Stability with Flexure



Cable Phase Stability with Temperature



Cable Attenuation & Power



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Cable Attenuation & Power

	Frequency [GHz]	Insertion Loss [dB/M]	Power [W]
Maximum Attenuation	1	-0.15	1331
	3	-0.28	769
	6	-0.41	544
	9	-0.53	444
	12	-0.63	385
	15	-0.72	344
	18	-0.81	314

Test Result

