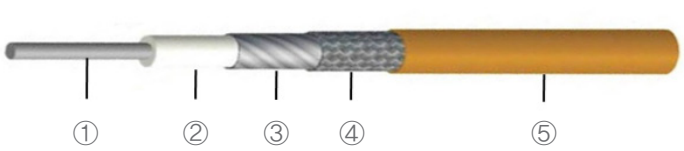
GL140s Cable

▶ Features and benefits

- Frequency ranges from DC to 40 GHz
- Low Loss and Flexibility
- Durability
- Low density PTFE(extruded) dielectric
- Excellent shielding effectiveness and return loss
- Cost-efficient

▶ Cable Design



Description		Diameter (mm)
① Center conductor	Silver-plated copper wire, stranded	19/0.2
② Dielectric	Low density PTFE (extruded)	-
③ Inner shield	Silver-plated copper tape	-
④ Outer shield	Silver-plated copper braid	-
⑤ Jacket	Extruded FEP	4.20

Electrical

Impedance	50 Ω
Operating frequency	40 GHz
Capacitance	86 pF/m
Velocity of propagation	77 % nom.
Time delay	4.35 ns/m
RF leakage (dB)	-100
Dielectric constant	1.7
Phase stability vs. flexure (@18 GHz max.)	4°
IL stability vs. flexure (dB @minimum BR)	± 0.3
Phase stability vs. temp. (deg/GHz/m) (-40 ~ 80°)	< 2°

Mechanical & Environmental

Minimum bend radius (mm)	19.05
Weight (g/m)	42
Temperature	-55℃ to + 135℃

Suitable Connectors

Cable selection			Standard Connector selection					
			SMA type		N type		2.9mm type	Drawing Page
P/N	Frequency	Attenuation (dB/m)	Straight	R/A	Straight	R/A	Straight	
GL140sB02	6 GHz	0.88	SMS114 SMS114B*	SMR114	NMS114	NMR114B	-	82p
GL140sC	18 GHz	1.62	SMS122 SMS122B*	-	-		-	82p
GL140sD	26.5 GHz	1.98	SMS115 SMS115B*	-	-		-	82p
GL140sE	40 GHz	2.52	-	-	-		KMS116	82p

* XXXXXXB : Shrink Tube Type ex) SMS114B

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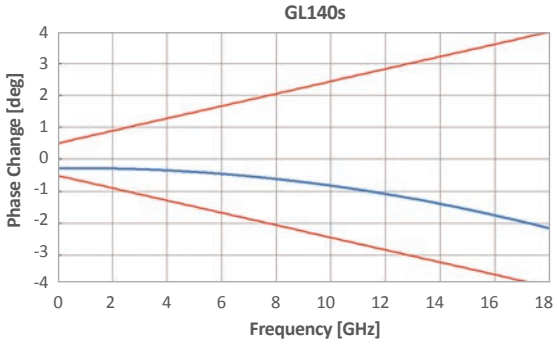
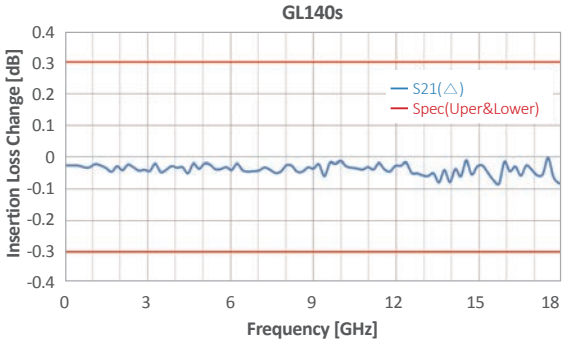
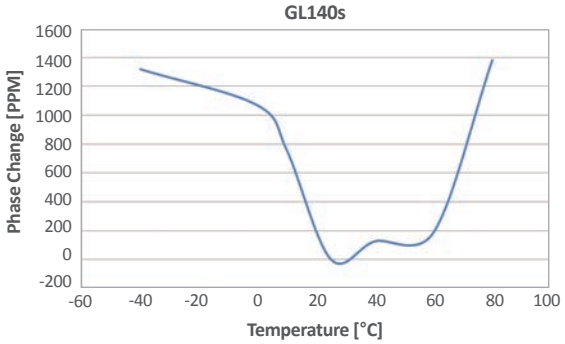
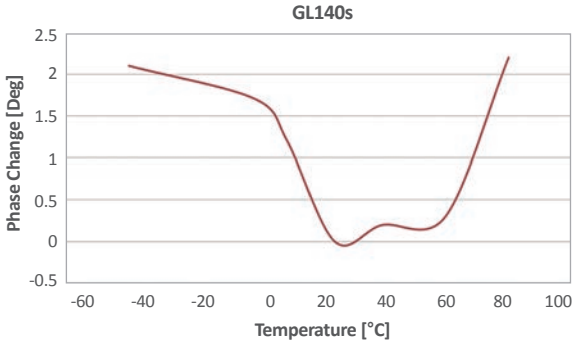
▶ Cable Insertion & Stability with Flexure



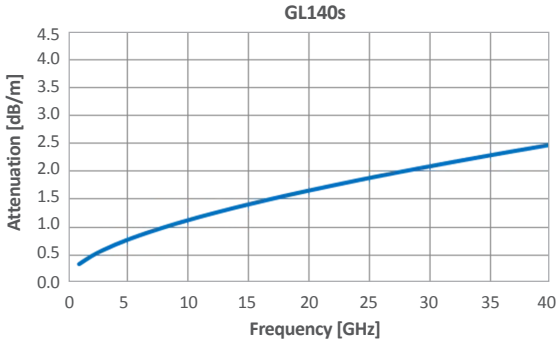


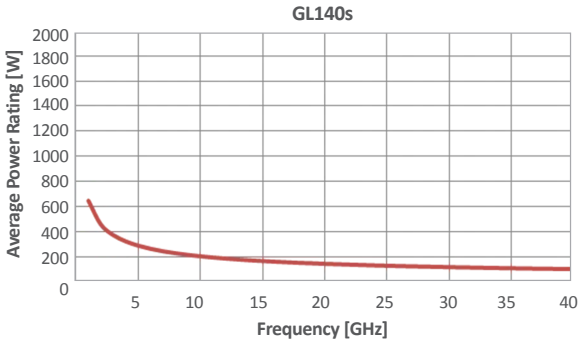
▶ Cable Phase Stability with Temperature





▶ Cable Attenuation & Power





▶ Test Result