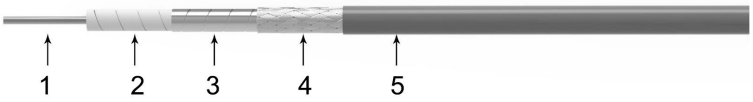
Ultra-Low Loss Phase and Amplitude Stable Flexible Cable PL360 Rev3

Features & Benefits

- Excellent phase stability with flexure 40GHz ≤6°
- Lower loss than equivalent same-size cables
- Available in armor options
- Temperature phase stability＜680ppm(-40℃ to +85℃)
- Wide choice of connectors
- Alternative to Gore CXN3507

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	0.91	Solid silver-plated copper
2	Dielectric	2.50	Ultra-low density PTFE
3	Outer Conductor	2.66	Silver-plated copper tape wrap
4	Outer Sheild	3.06	Silver-plated copper wire braid
5	Jacket	3.60	FEP

Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
Velocity of Propagation	82%
Shielding Effectiveness	>90 dB
Withstanding Voltage	1000 V
*Mechanical Phase Stability	<±6º
Amplitude Stability vs Shaking	<±0.15dB
Temp Phase Stability	<680ppm(-40℃ to +85℃)

* Wrapped 360˚ around a 36mm diameter mandrel.

Mechanical & Environmental

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Weight	33g/m
Temperature(Operation)	-50～150 ºC
Temperature(Storage)	-60～160 ºC

Attenuation(Typical@25℃&VSWR=1.0) & Power(VSWR=1.0; 40℃; Sea level)

Frequency MHz	300	1200	2500	4000	6000	8000	10000	12000	14000	18000	32000	40000
dB/100 Meter	20.4	41.1	59.8	76.1	93.8	108.9	122.3	134.6	146.0	166.7	226.6	255.7
Avg.Power kW	0.940	0.466	0.321	0.252	0.204	0.176	0.157	0.142	0.131	0.115	0.094	0.075

Attenuation at any frequency＝[1.16847×SQRT(FMHz)]+[0.000550×FMHz]

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
PL360	SMA	M/F	Straight	Standard	26.5	1.3
PL360	SMA	Male	Right Angle	Standard	18	1.35
PL360	N	Male	Straight	Standard	18	1.35
PL360	3.5mm	M/F	Straight	Standard	33	1.3
PL360	2.92mm	M/F	Straight	Standard	40	1.3
PL360	2.92mm	Male	Right Angle	Standard	38	1.4
PL360	2.4mm	Male	Straight	Standard	40	1.35
PL360	SSMA	Male	Right Angle	Standard	33	1.4

Other connectors available upon request.