

Ultra-Low Loss Phase and Amplitude Stable Flexible Cable

LP360P

Features & Benefits

- Excellent phase stability with flexure 50GHz ≤5°
- Bulk cables in stock
- Alternative to Gore CXN3507
- Typical VSWR <1.25 to 50 GHz
- Available in armor options
- Durable for test use with multi-layer protection

Cable Construction

No.	Construction	Size (mm)	Materials
1	Center Conductor	0.72	Solid silver-plated copper
2	Dielectric	2.15	Low density PTFE
3	Outer Conductor	2.30	Silver-plated copper tape wrap
4	Interlayer	2.60	Low density PTFE
5	Outer Shield	3.05	Silver-plated copper wire braid
6	Jacket	3.60	FEP



Electrical

Frequency	DC-50 GHz
Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	>90 dB
Withstanding Voltage	1000 V
*Mechanical Phase Stability	<±5°
Amplitude Stability vs Shaking	<±0.1dB
Temp Phase Stability	<1300ppm(-40°C to +85°C)

* Wrapped 360° around a 36mm radius mandrel.

Mechanical & Environmental

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Weight	34g/m
Temperature(Operation)	-50~150 °C
Temperature(Storage)	-60~160 °C

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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	18000	26500	40000	50000
dB/100 Meter	23.9	43.8	62.2	88.5	108.8	126.1	141.5	155.4	191.8	234.8	291.7	328.5
Avg.Power kW	0.750	0.409	0.288	0.202	0.165	0.142	0.127	0.115	0.093	0.076	0.061	0.055

Attenuation at any frequency=[1.370735×SQRT(FMHz)]+[0.000440×FMHz]

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
LP360P	SMA	M/F	Straight	Standard	26.5	1.25
LP360P	N	Male	Straight	Standard	18	1.3
LP360P	3.5mm	M/F	Straight	Standard	33	1.3
LP360P	2.92mm	M/F	Straight	Standard	40	1.3
LP360P	2.92mm	M	Right Angle	Standard	40	1.4
LP360P	2.92mm	Female	Straight	Bulkhead	40	1.35
LP360P	2.4mm	M/F	Straight	Standard	50	1.35

Other connectors available upon request.