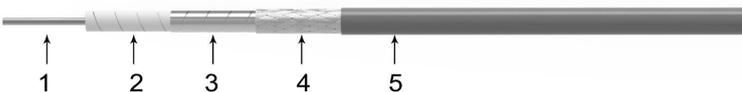


**Features & Benefits**

- Ultra low loss 2.02dB/meter to 40 GHz
- Typical VSWR 1.2 to 40GHz
- Temperature phase stability <750ppm(-40°C to +85°C)
- Excellent phase stability with flexure 40GHz  $\leq \pm 5^\circ$

**Cable Construction**



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.06	Solid silver-plated copper
2	Dielectric	2.82	Ultra-low density PTFE
3	Outer Conductor	3.00	Silver-plated copper tape wrap
4	Outer Shield	3.45	Silver-plated copper wire braid
5	Jacket	4.00	FEP



**Electrical**

Frequency	DC-40 GHz
Impedance	50 Ω
Velocity of Propagation	84%
Shielding Effectiveness	>90 dB
Withstanding Voltage	1000 V
*Mechanical Phase Stability	<±5°
Amplitude Stability vs Shaking	<±0.1dB
Temp Phase Stability	<750ppm(-40°C to +85°C)

\* Wrapped 360° around a 40mm radius mandrel.

**Mechanical & Environmental**

Min. Bending Radius Static	20mm
Min. Bending Radius Repeated	40mm
Weight	37g/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	500	1000	3000	6000	8000	12000	14000	16000	18000	26500	40000
dB/100 Meter	16.5	21.4	30.4	53.0	75.4	87.5	107.8	116.8	125.1	133.0	162.9	202.4
Avg. Power kW	0.940	0.727	0.512	0.294	0.206	0.178	0.144	0.133	0.124	0.117	0.095	0.077

Attenuation at any frequency =  $[0.9499642 \times \text{SQRT}(\text{FMHz})] + [0.0003109 \times \text{FMHz}]$

**Available connectors**

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
LP400	2.92mm	Male	Straight	Standard	40	1.3
LP400	2.92mm	Female	Straight	Standard	40	1.35
LP400	SMA	Male	Straight	Standard	26.5	1.3
LP400	SMA	Female	Straight	Standard	26.5	1.3
LP400	N	Male	Straight	Standard	18	1.25
LP400	N	Female	Straight	Standard	18	1.3

Other connectors available upon request.