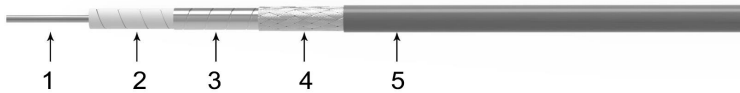


Features & Benefits

- Excellent phase stability with flexure 18 GHz $\leq 5^\circ$
- High power handling
- Temperature phase stability $< 500\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$
- Alternative to SUCOFLEX106, CXN3450, UFB311A

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	2.30	Solid silver-plated copper
2	Dielectric	6.30	Ultra-low density PTFE
3	Outer Conductor	6.50	Silver-plated copper tape wrap
4	Outer Shield	7.10	Silver-plated copper wire braid
5	Jacket	7.85	FEP



Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	$> 90\text{ dB}$
Withstanding Voltage	2000 V
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1\text{dB}$
Temp Phase Stability	$< 500\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$

* Wrapped 360° around a 80mm diameter mandrel.

Mechanical & Environmental

Min. Bending Radius Static	40mm
Min. Bending Radius Repeated	80mm
Weight	130g/m
Temperature(Operation)	$-55 \sim 150^\circ\text{C}$
Temperature(Storage)	$-60 \sim 160^\circ\text{C}$

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

Frequency MHz	300	1000	2000	3000	6000	8000	10000	12000	14000	16000	18000
dB/100 Meter	8.0	14.8	21.1	26.0	37.3	43.4	48.9	53.9	58.6	63.0	67.1
Avg. Power kW	3.341	1.812	1.269	1.029	0.716	0.615	0.547	0.496	0.456	0.425	0.398

Attenuation at any frequency = $[0.456380 \times \text{SQRT}(\text{FMHz})] + [0.000328 \times \text{FMHz}]$

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
PL800	SMA	M/F	Straight	Standard	18	1.3
PL800	SMA	Male	Right Angle	Standard	18	1.35
PL800	N	M/F	Straight	Standard	18	1.3
PL800	N	Male	Right Angle	Standard	18	1.35
PL800	TNC	M/F	Straight	Standard	18	1.35
PL800	TNC	Male	Right Angle	Standard	18	1.4
PL800	DIN 7/16	Male	Straight	Standard	6	1.3

Other connectors available upon request.