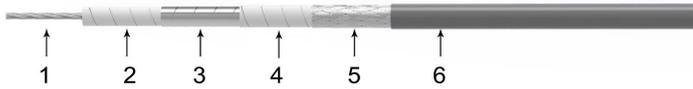


Features & Benefits

- Excellent phase stability with flexure 18 GHz $\leq 5^\circ$
- High power handling
- Temperature phase stability $< 500\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$
- Longer flex life with stranded center conductor

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	2.30	Stranded silver plated copper
2	Dielectric	6.00	Low density PTFE
3	Outer Conductor	6.33	Silver plated copper strip wrapping
4	Interlayer	6.60	PTFE
5	Outer Shield	7.05	Silver plated copper wire braiding
6	Jacket	7.70	FEP



Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	$> 90\text{ dB}$
Withstanding Voltage	2500 V
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$
Temp Phase Stability	$< 500\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$

* Wrapped 360° around a 80mm radius mandrel.

Mechanical & Environmental

Min. Bending Radius Static	40mm
Min. Bending Radius Repeated	80mm
Weight	124g/m
Temperature(Operation)	$-55 \sim 125^\circ\text{C}$
Temperature(Storage)	$-65 \sim 125^\circ\text{C}$

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	9.8	18.1	25.9	31.9	45.8	53.4	60.1	66.2	71.9	77.3	82.4
Avg. Power kW	3.340	1.811	1.269	1.029	0.717	0.616	0.547	0.496	0.457	0.425	0.399

Attenuation at any frequency = $[0.561347 \times \text{SQRT}(\text{FMHz})] + [0.000393 \times \text{FMHz}]$

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
FU800	SMA	M/F	Straight	Standard	18	1.3
FU800	SMA	Male	Right Angle	Standard	18	1.35
FU800	N	M/F	Straight	Standard	18	1.3
FU800	N	Male	Right Angle	Standard	18	1.35
FU800	TNC	M/F	Straight	Standard	18	1.35
FU800	TNC	Male	Right Angle	Standard	18	1.4
FU800	DIN 7/16	Male	Straight	Standard	6	1.3

Other connectors available upon request.