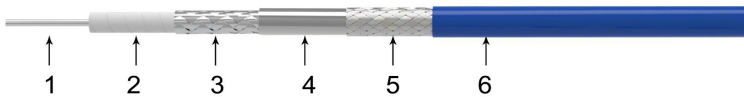


Features & Benefits

- Up to 18 GHz, typical VSWR 1.20
- Torsion resistant and vibration proof
- High flex life, available with ruggedized armor
- Superior shielding effectiveness >100 dB
- Very good phase stability with flexure $\leq \pm 6^\circ$ to 18 GHz
- Alternative to UFA205A, SFT-205, HP190S

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.29	Solid Silver-plated copper
2	Dielectric	3.90	Low density PTFE
3	Outer Conductor	4.15	Silver-plated flat copper ribbon braid
4	Interlayer	4.28	Aluminum foil wrap
5	Outer Shield	4.73	Silver-plated copper wire braid
6	Jacket	5.20	FEP



Electrical

Frequency	DC-18 GHz
Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	>100 dB
Withstanding Voltage	1500 V
Mechanical Phase Stability*	$\leq \pm 6^\circ$
Amplitude Stability vs Shaking	$\leq \pm 0.2$ dB

* Wrapped 360° around a 52mm diameter mandrel.

Mechanical & Environmental

Min. Bending Radius Static	25mm
Min. Bending Radius Repeated	52mm
Weight	60g/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	400	500	1000	1350	1500	6000	8000	10000	12400	14000	18000
dB/100 Meter	17.4	19.4	27.7	32.3	34.0	69.9	81.3	91.5	102.7	109.6	125.5
Avg. Power kW	1.201	1.072	0.754	0.646	0.612	0.298	0.256	0.228	0.203	0.190	0.166
	K1=0.856233					K2=0.000591					
	Attenuation at any frequency = $[K1 \times \text{SQRT}(F\text{MHz})] + [K2 \times F\text{MHz}]$										

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
FL520	SMA	Male	Straight	Standard	18	1.25
FL520	N	Male	Straight	Standard	18	1.3

Other connectors available upon request.