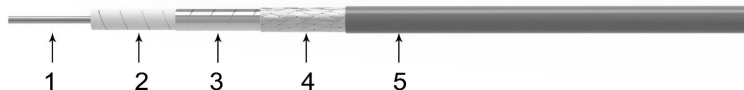


Features & Benefits

- Excellent phase stability with flexure 26.5GHz $\leq 5^\circ$
- Minimal attenuation change in dynamic condition
- Available in armor options
- Temperature phase stability $< 550\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$
- Alternative to SUCOFLEX104, CXN3449, UFB205A
- Bulk cables in stock

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.45	Solid silver-plated copper
2	Dielectric	4.00	Ultra-low density PTFE
3	Outer Conductor	4.20	Silver-plated copper tape wrap
4	Outer Shield	4.70	Silver-plated copper wire braid
5	Jacket	5.20	FEP



Electrical

Frequency	DC-26.5 GHz
Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	$> 90\text{ dB}$
Withstanding Voltage	1500 V
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$
Temp Phase Stability	$< 550\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$

* Wrapped 360° around a 52mm radius mandrel.

Mechanical & Environmental

Min. Bending Radius Static	25mm
Min. Bending Radius Repeated	52mm
Weight	52g/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	4000	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 Meter	12.5	23.0	32.7	46.6	57.4	66.6	74.8	82.3	89.3	95.8	101.9	125.2
Avg. Power kW	1.608	0.875	0.615	0.431	0.350	0.302	0.268	0.244	0.225	0.210	0.197	0.160

Attenuation at any frequency = $[0.715686 \times \text{SQRT}(\text{FMHz})] + [0.000328 \times \text{FMHz}]$

Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
LP520	2.92mm	M/F	Straight	Standard	26.5	1.3
LP520	3.5mm	M/F	Straight	Standard	26.5	1.3
LP520	SMA	M/F	Straight	Standard	26.5	1.3
LP520	SMA	Female	Straight	Bulkhead	18	1.3
LP520	SMA	Male	Right Angle	Standard	26.5	1.35
LP520	N	M/F	Straight	Standard	18	1.25/1.3
LP520	N	Male	Right Angle	Standard	18	1.35
LP520	TNC	Male	Straight	Standard	18	1.35
LP520	TNC	Male	Right Angle	Standard	18	1.4

Other connectors available upon request.