

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
- Robust structure with triple shielding

Cable Construction

No.	Construction	Size (mm)	Materials
1	Center conductor	1.45	Silver Plated Copper
2	Dielectric	4.00	Ultra-low density PTFE
3	Outer conductor	4.20	Silver Plated Copper Wrap
4	Interlayer	4.45	PTFE
5	Outer shield	4.90	Silver Plated Copper Braid
6	Jacket	5.40	Grey FEP



Electrical

Frequency	DC-26.5 GHz
Impedance	50 Ω
Velocity of Propagation	82%
Shielding Effectiveness	$> 90\text{ dB}$
Withstanding Voltage	1500 V
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1\text{ dB}$
Temp Phase Stability	$< 550\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$

* Wrapped 360° around a 54mm radius mandrel.

Mechanical & Environmental

Min. Bending Radius Static	26mm
Min. Bending Radius Repeated	52mm
Weight	63g/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	18000	20000	26500
dB/100 Meter	12.5	23.0	32.7	46.6	57.4	66.6	74.8	82.3	89.3	101.9	107.8	125.2
Avg. Power kW	1.608	0.875	0.615	0.431	0.350	0.302	0.268	0.244	0.225	0.197	0.186	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
LP520P	2.92mm	M/F	Straight	Standard	26.5	1.3
LP520P	3.5mm	M/F	Straight	Standard	26.5	1.3
LP520P	SMA	M/F	Straight	Standard	26.5	1.3
LP520P	SMA	Female	Straight	Bulkhead	18	1.3
LP520P	SMA	Male	Right Angle	Standard	26.5	1.35
LP520P	N	M/F	Straight	Standard	18	1.25/1.3
LP520P	N	Male	Right Angle	Standard	18	1.35
LP520P	TNC	Male	Straight	Standard	18	1.35
LP520P	TNC	Male	Right Angle	Standard	18	1.4

Other connectors available upon request.