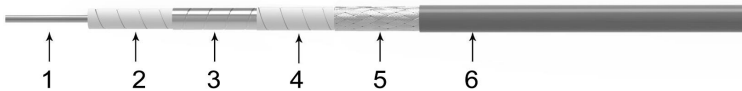


### Features & Benefits

- 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	LD 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 $\Omega$
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 diameter 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
PL520P	SMA	Male/Female	Straight	Standard	26.5	1.3
PL520P	SMA	Male	Right Angle	Standard	26.5	1.35
PL520P	N	Male	Straight	Standard	18	1.25
PL520P	N	Male	Right Angle	Standard	18	1.35
PL520P	N	Female	Straight	Standard	18	1.35
PL520P	TNC	Male	Straight	Standard	18	1.35
PL520P	3.5mm	Male	Straight	Standard	26.5	1.3

Other connectors available upon request.