

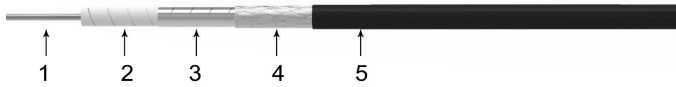
## Features & Benefits

- Ultra low loss, 1.25dB/meter to 26.5 GHz
- Excellent phase stability with temp & flexure
- Extended temperature range -55~165 °C
- Low outgassing materials:TML<1%,CVCM<0.1%
- Vented connectors to allow rapid pressurization test
- Thermally conditioned for reliability over temp extremes

## Applications

- Satellite TVAC Chambers
- RF connections in high vacuum conditions
- High-Altitude and Space Simulation Systems
- Aerospace ATE & Ground Support Systems

## Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	1.45	Solid silver-plated copper
2	Dielectric	4.00	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	Black FEP (ETFE available)



## Electrical

Frequency	DC-26.5 GHz
Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	>90 dB
Withstanding Voltage	1500 V
Temp Phase Stability	<550ppm(-40°C to +85°C)
Amplitude Stability vs Shaking	<±0.15dB
Mechanical Phase Stability	<±5° (Wrapped 360° around a 52mm radius mandrel)
Phase matching available in	±0.3-0.5°/GHz or better

## Mechanical & Environmental

Min.Bending Radius Static	25mm
Min. Bending Radius Repeated	52mm
Weight	63g/m
Temperature(Operation)*	-55~165 °C
Temperature(Storage)	-60~165 °C
*Temperature for ETFE jacket is to 150 °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×SQRT(FMHz)]+[0.000328×FMHz]												

## Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
TVAC-PL520	SMA	Male	Straight	Standard	26.5	1.3
TVAC-PL520	N	Male	Straight	Standard	18	1.25
TVAC-PL520	TNC	Male	Straight	Standard	18	1.3
TVAC-PL520	3.5mm	Male	Straight	Standard	26.5	1.3
TVAC-PL520	2.92mm	Male	Straight	Standard	26.5	1.3

Other connectors available upon request.