

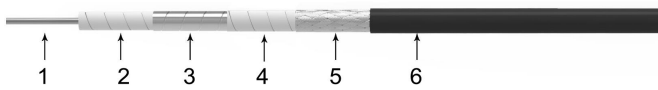
## Features & Benefits

- Ultra low loss, 2.2dB/meter to 40 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	1.02	Solid silver-plated copper
2	Dielectric	2.85	Ultra-low density PTFE
3	Outer Conductor	3.06	Silver-plated copper tape wrap
4	Interlayer	3.22	Low density PTFE
5	Outer Shield	3.67	Silver-plated copper wire braid
6	Jacket	3.80	Black FEP (ETFE available)



## Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
Velocity of Propagation	82%
Shielding Effectiveness	>90 dB
Withstanding Voltage	1000 V
Temp Phase Stability	<680ppm(-40°C to +85°C)
Amplitude Stability vs Shaking	<±0.1dB
Mechanical Phase Stability	<±5°(Wrapped 360° around a 38mm radius mandrel)
Phase matching available in	±0.3-0.5°/GHz or better

## Mechanical & Environmental

Min.Bending Radius Static	19mm
Min. Bending Radius Repeated	38mm
Weight	37g/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	26500	40000
dB/100 Meter	17.3	31.9	45.5	64.9	80.1	93.1	104.7	115.3	125.1	143.0	176.1	220.5
Avg.Power kW	0.940	0.511	0.359	0.251	0.203	0.175	0.156	0.141	0.130	0.114	0.093	0.074
Attenuation at any frequency=[0.991549×SQRT(FMHz)]+[0.0005555×FMHz]												

## Available connectors

Cable P/N	Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
TVAC-PL380P	SMA	Male	Straight	Standard	26.5	1.3
TVAC-PL380P	3.5mm	Male	Straight	Standard	33	1.3
TVAC-PL380P	2.92mm	Male	Straight	Standard	40	1.3

Other connectors available upon request.