

PS560L-18G-F

High Frequency Low Loss Phase Stable Coaxial Cable

- Operation Frequency: DC to 18 GHz
- Compact 5.60 mm Outer Diameter
- Low Density PTFE (LD-PTFE) Dielectric for Ultra-Low Loss
- Triple Shielding Structure (Eff. > 90 dB)
- High Temperature FEP Outer Sheath (-55°C to +200°C)



STRUCTURE & PHYSICAL CONSTRUCTION

Item	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper	1 / 1.40	1.40
Insulation (Dielectric)	LD-PTFE	-	3.80
Inner Shield	Silver Plated Copper Strip	-	4.00
Interlayer	High Temperature Aluminium Foil	-	4.15
Outer Shield	Silver Plated Copper Wire	-	4.80
Jacket	FEP	-	5.60

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	50 Ω	Capacitance	88 pF/m
Velocity of Propagation	78%	Max Operating Frequency	18 GHz
Screening Effectiveness	> 90 dB	Dielectric Withstanding Voltage	2000 V DC
Phase Change vs Bending	±0.2 °/GHz	Phase Change vs Temp. (-45~+85°C)	≤ 1500 PPM
Min Bend Radius (Static)	25.00 mm	Min Bend Radius (Dynamic)	50.00 mm
Weight	0.075 kg/m	Operating Temperature	-55°C to +200°C

ATTENUATION & POWER HANDLING PERFORMANCE

IL Formula = K1 * sqrt(F_MHz) + K2 * F_MHz [dB/100m] | K1 = 0.785000, K2 = 0.000850

Frequency (MHz)	Nominal Attenuation (dB/100m @ 25°C & Sea Level)	Max Power Handling (W @ 40°C & Sea Level)
300	13.85	1,520
500	17.98	1,180
1000	25.68	820
2000	36.82	570
3000	45.55	460
6000	65.93	315
8000	77.03	270
10000	87.00	238
12400	97.98	210
16000	112.92	182
18000	120.68	170