

PSE760L-18G-F

High Frequency Low Loss Phase Stable Coaxial Cable

- Operation Frequency: DC to 18 GHz
- Low Density PTFE (LD-PTFE) Dielectric for Ultra-Low Loss
- Triple Shielding Structure (Eff. > 90 dB)
- Phase Stability vs. Bending: ± 0.2 °/GHz
- 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 / 2.10	2.10
Insulation (Dielectric)	LD-PTFE	-	6.10
Inner Shield	Silver Plated Copper Strip	-	6.42
Interlayer	High Temperature Aluminium Foil	-	6.54
Outer Shield	Silver Plated Copper Wire	-	7.05
Jacket	Light Blue FEP	-	7.60

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	3000 V DC
Phase Change vs Bending	± 0.2 °/GHz	Phase Change vs Temp. (-45~+85°C)	≤ 1500 PPM
Min Bend Radius (Static)	38.00 mm	Min Bend Radius (Dynamic)	76.00 mm
Weight	0.127 kg/m	Operating Temperature	-55°C to +200°C

ATTENUATION & POWER HANDLING PERFORMANCE

IL Formula = $K1 * \sqrt{F_MHz} + K2 * F_MHz$ [dB/100m] | $K1 = 0.5382111$, $K2 = 0.000591$

Frequency (MHz)	Nominal Attenuation (dB/100m @ 25°C & Sea Level)	Max Power Handling (W @ 40°C & Sea Level)
300	9.50	2,908
500	12.33	2,240
1000	17.61	1,569
2000	25.25	1,094
3000	31.25	884
6000	45.24	611
8000	52.87	523
10000	59.73	462
12400	67.26	411
16000	77.53	356
18000	82.85	333