

PS1200L-10G

High Frequency Low Loss Phase Stable Coaxial Cable

- Operation Frequency: DC to 10 GHz
- Low Density PTFE (LD-PTFE) Dielectric for Ultra-Low Loss
- Triple Shielding Structure (Eff. > 90 dB)
- Phase Stability vs. Bending: ± 0.2 °/GHz
- Wide Operating Temperature Range: -55°C to +200°C



STRUCTURE & PHYSICAL CONSTRUCTION

Item	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper	7 / 1.17	3.50
Insulation (Dielectric)	LD-PTFE	-	10.00
Inner Shield	Silver Plated Copper Strip	-	10.32
Interlayer	High Temperature Aluminium Foil	-	10.45
Outer Shield	Silver Plated Copper Wire	-	11.02
Jacket	Light Blue FEP	-	12.00

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	50 Ω	Capacitance	88 pF/m
Velocity of Propagation	76%	Max Operating Frequency	10 GHz
Screening Effectiveness	> 90 dB	Dielectric Withstanding Voltage	4000 V DC
Phase Change vs Bending	± 0.2 °/GHz	Phase Change vs Temp. (-45~+85°C)	≤ 1500 PPM
Min Bend Radius (Static)	60.00 mm	Min Bend Radius (Dynamic)	120.00 mm
Weight	0.300 kg/m	Operating Temperature	-55°C to +200°C

ATTENUATION & POWER HANDLING PERFORMANCE

IL Formula = $K1 * \sqrt{F_MHz} + K2 * F_MHz$ [dB/100m] | $K1 = 0.39168$, $K2 = 0.0006$

Frequency (MHz)	Nominal Attenuation (dB/100m @ 25°C & Sea Level)	Max Power Handling (W @ 40°C & Sea Level)
100	3.98	8,457
300	6.96	4,829
500	9.06	3,713
1000	12.99	2,590
2000	18.72	1,797
2500	21.08	1,595
3000	23.25	1,446
6000	33.94	991
8000	39.83	844
9000	42.56	790
10000	45.17	745