

PS930L-12G

High Frequency Low Loss Phase Stable Coaxial Cable

- Operation Frequency: DC to 12.4 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	1 / 2.44	2.44
Insulation (Dielectric)	LD-PTFE	-	7.30
Inner Shield	Silver Plated Copper Strip	-	7.54
Interlayer	High Temperature Aluminium Foil	-	7.67
Outer Shield	Silver Plated Copper Wire	-	8.19
Jacket	Light Blue FEP	-	9.30

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	50 Ω	Capacitance	88 pF/m
Velocity of Propagation	76%	Max Operating Frequency	12.4 GHz
Screening Effectiveness	> 90 dB	Dielectric Withstanding Voltage	3500 V DC
Phase Change vs Bending	± 0.2 °/GHz	Phase Change vs Temp. (-45~+85°C)	≤ 1500 PPM
Min Bend Radius (Static)	47.00 mm	Min Bend Radius (Dynamic)	94.00 mm
Weight	0.194 kg/m	Operating Temperature	-55°C to +200°C

ATTENUATION & POWER HANDLING PERFORMANCE

IL Formula = $K1 * \sqrt{F_MHz} + K2 * F_MHz$ [dB/100m] | $K1 = 0.44608, K2 = 0.0006$

Frequency (MHz)	Nominal Attenuation (dB/100m @ 25°C & Sea Level)	Max Power Handling (W @ 40°C & Sea Level)
100	4.52	5,985
300	7.91	3,422
500	10.27	2,633
1000	14.71	1,840
2000	21.15	1,279
3000	26.23	1,031
6000	38.15	709
8000	44.70	605
10000	50.61	535
12000	56.07	483
12400	57.11	474