

PS260L-67G-F

67GHz High-Frequency Low-Loss Phase Stable Coaxial Cable

PS260L-67G-F is engineered for high-density microwave and millimeter-wave applications requiring reliable phase stability under dynamic bending and temperature variations up to 67 GHz.

- Dielectric:** Expanded Low-Density PTFE (LD-PTFE) with 82% VP
- Shielding:** Dual silver-plated copper strip & wire braid (>90 dB effectiveness)
- Phase Stability:** ± 0.3 °/GHz vs bending
- Jacket:** Durable, high-temperature Gray FEP (-55°C to +165°C)
- Outer Diameter:** Compact 2.60 mm O.D.



1. STRUCTURAL SPECIFICATIONS

Layer	Material	Construction	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper (SPC)	1 / 0.60 mm	0.60
Dielectric	Low-Density PTFE (LD-PTFE)	Solid Expanded	1.68
Inner Shield	Silver Plated Copper Strip	Helical Wrap	1.88
Outer Shield	Silver Plated Copper Wire	Braid	2.20
Jacket	Gray FEP	Extruded	2.60

2. MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Min. Bending Radius (Static)	10.4 mm	Weight	0.022 kg/m
Min. Bending Radius (Dynamic)	26.0 mm	Operating Temp. Range	-55°C to +165°C

3. ELECTRICAL PERFORMANCE

Impedance	50 Ω	Max Operating Frequency	67 GHz
Velocity of Propagation	82%	Screening Effectiveness	> 90 dB
Capacitance	80 pF/m	Dielectric Withstanding Voltage	800 V DC
Phase Stability vs Bending	± 0.3 °/GHz	Phase Stability vs Temp. (-45~+85°C)	≤ 750 PPM

4. ATTENUATION & POWER HANDLING (@ 25°C SEA LEVEL)

Insertion Loss Calculation Formula: $IL = K1 * \sqrt{F_MHz} + K2 * F_MHz$ | $K1 = 1.618060297$, $K2 = 0.000557259$

Frequency (MHz)	Nom. Attenuation (dB/100m)	Max. Power Handling (W @ 40°C)
1000	51.72	230
2000	73.48	162
4000	104.56	114
6000	128.68	92
8000	149.18	80
10000	167.38	71
18000	227.12	52
26500	278.17	43
40000	345.90	34
50000	389.67	31
67000	456.16	26