

PS230L-67G-BF

67GHz Low Loss Phase Stable Coaxial Cable

Key Features & Overview

- Max Frequency:** DC to 67 GHz millimeter-wave performance.
- Velocity of Propagation:** 76% (LD-PTFE Dielectric).
- Phase Stability:** ±0.2 °/GHz vs Bending.
- Miniature Design:** 2.30 mm nominal outer diameter.
- Shielding Efficiency:** >90 dB (Strip + Braid Dual Shield).

Optimized for ultra-high-frequency broadband test assemblies, 1.85mm connector interconnects, and radar subsystems demanding tight bend radius and low loss.



Structural Properties

Layer	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper	1 / 0.51	0.51
Insulation	LD-PTFE	-	1.55
Inner Shield	Silver Plated Copper Strip	-	1.70
Outer Shield	Silver Plated Copper Wire Braid	-	2.01
Jacket	Blue FEP	-	2.30

Electrical Characteristics

Impedance	50 Ohm	Velocity of Propagation	76%
Max Operating Frequency	67 GHz	Capacitance	88 pF/m
Screening Effectiveness	> 90 dB	Dielectric Withstanding Voltage	800 V DC
Phase Change vs Bending	±0.2 °/GHz	Phase Change vs Temp (-45~+85°C)	≤ 1500 PPM

Insertion Loss Formula: $IL = K1 * \sqrt{F_MHz} + K2 * F_MHz$ (dB/100m)
Constants: K1 = 2.177342, K2 = 0.001221

Mechanical & Environmental Properties

Min. Static Bending Radius	11.0 mm	Min. Dynamic Bending Radius	23.0 mm
Weight	0.016 kg/m	Operating Temperature	-55°C to +165°C

Attenuation & Power Handling (@ 25°C Sea Level)

Frequency (MHz)	Nom. Attenuation (dB/100m)	Max Power Handling (W @ 40°C)
300	38.08	179
500	49.30	138
1000	70.07	97
3000	122.92	55
6000	175.98	39
8000	204.52	33
10000	229.94	30
12400	257.60	26
18000	314.10	22
26500	386.80	18
40000	484.31	14
50000	547.92	12
67000	645.40	11

Replaceable Type Cross-Reference: Direct equivalent to [HUBER+SUHNER](#) SUCOFLEX 100 series ultra-flexible mmWave cable assemblies.