

PS265L-50G

50 GHz Phase Stable Low Loss Coaxial Cable

The PS265L-50G is a flexible, high-frequency coaxial cable with a nominal 2.65 mm outer diameter, constructed with low-density PTFE insulation and a triple-shielded outer structure. It delivers low attenuation, superior phase stability versus bending, and excellent screening effectiveness across RF applications up to 50 GHz.



- Max Operating Frequency: 50 GHz
- Low Density PTFE (LD-PTFE) Dielectric
- Phase Stability vs. Bending: ± 0.3 °/GHz
- Nominal Outer Diameter: 2.65 mm
- Triple Shielding Construction (>100 dB Effectiveness)
- Direct Replacement for Minibend-086L (32024)

STRUCTURE & PHYSICAL DIMENSIONS

Layer	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper	1 / 0.56	0.56
Insulation	LD-PTFE	-	1.70
Inner Shield	Silver Plated Copper Strip	-	1.85
Interlayer	High Temperature Aluminium Foil	-	1.98
Outer Shield	Alloy Wire Braid	-	2.24
Jacket	FEP	-	2.65

MECHANICAL CHARACTERISTICS

Min. Bend Radius (Static)	6.00 mm
Min. Bend Radius (Dynamic)	15.00 mm
Weight	0.016 kg/m
Operating Temperature	-55 to +125 °C

ELECTRICAL CHARACTERISTICS

Impedance	50 Ohm
Velocity of Propagation	76%
Capacitance	87 pF/m
Screening Effectiveness	> 100 dB
Dielectric Voltage	500 V DC

ATTENUATION & POWER HANDLING

Formula: $IL = K1 * \sqrt{F_MHz} + K2 * F_MHz$ [dB/100m] | $K1 = 1.942426242$, $K2 = 0.001196918$

Frequency (MHz)	Nom. Attenuation (dB/100m @ 25°C)	Max Power Handling (W @ 40°C)
500	44.03	314
1000	62.62	221
3000	109.98	126
6000	157.64	88
10000	206.21	67
12000	227.15	61
16000	264.85	52
18000	282.15	49
26500	347.92	40
30000	372.35	37
40000	436.36	32

CROSS REFERENCE GUIDE

Primary Model	Equivalent Industry Reference	Compatibility Type
PS265L-50G	HUBER+SUHNER Minibend-086L (32024)	Direct Drop-In Equivalent