

PS260L-61G-F

61GHz Low Loss Phase Stable Flexible Coaxial Cable

- Max Frequency:** DC to 61 GHz
- Impedance:** 50 Ω nominal
- Phase Stability:** ± 0.3 $^{\circ}$ /GHz vs Bending
- Shielding Effectiveness:** > 90 dB
- Cross Reference:** TFlex-405



1. CONSTRUCTION & PHYSICAL DIMENSIONS

Item	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper	1 / 0.53	0.53
Insulation	Solid PTFE	-	1.68
Inner Shield	Silver Plated Copper Strip	-	1.88
Outer Shield	Silver Plated Copper Wire Braid	-	2.20
Jacket	Blue FEP	-	2.60

2. MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Min. Bend Radius (Static)	20.0 mm	Operating Temp. Range	-55 $^{\circ}$ C to +125 $^{\circ}$ C
Min. Bend Radius (Dynamic)	40.0 mm	Nominal Weight	0.022 kg/m

3. ELECTRICAL CHARACTERISTICS

Impedance	50 Ω	Velocity of Propagation	70%
Max Operating Frequency	61 GHz	Capacitance	94 pF/m
Shielding Effectiveness	> 90 dB	Withstanding Voltage	1000 V DC
Phase Change vs Bending	± 0.3 $^{\circ}$ /GHz		

4. HIGH FREQUENCY ATTENUATION & POWER HANDLING

Insertion Loss Formula: $IL = K1 * \sqrt{F_MHz} + K2 * F_MHz$ | $K1 = 1.860236$, $K2 = 0.003937$

Frequency (MHz)	Attenuation (dB/100m @ 25°C)	Power Handling (W @ 40°C)
300	33.40	376
500	43.56	288
1000	62.76	200
3000	113.70	110
6000	167.72	75
10000	225.39	56
16000	298.30	42
18000	320.44	39
26500	407.15	31
40000	529.53	24
50000	612.81	20