

PS450K-26G

26.5GHz Low Loss Triple-Shielded Phase Stable Coaxial Cable

- Frequency Range: DC to 26.5 GHz
- Inner Conductor: Solid Silver-Plated Copper (1 / 1.12 mm)
- Dielectric: ZF402 / LD-PTFE (76% VOP)
- Triple Shielding: Silver Strip + High Temp Al Foil Interlayer + Wire Braid (>90 dB)
- Outer Diameter: 4.50 mm (FEP Jacket)



1. CABLE CONSTRUCTION & MATERIALS

Structure Layer	Item / Parameter	Material / Specification	Nom. O.D. (mm)
Inner Conductor	Material	Silver Plated Copper	1.12
	Construction	1 / 1.12 mm	
Insulation	Material	ZF402 (LD-PTFE)	3.10
Inner Shield	Material	Silver Plated Copper Strip	3.30
Interlayer	Material	High Temp Aluminium Foil	3.45
Outer Shield	Material	Silver Plated Copper Wire	3.85
Jacket	Material	FEP (Blue)	4.50

2. ELECTRICAL CHARACTERISTICS

Parameter	Specification	Parameter	Specification
Impedance	50 Ω	Max Operating Frequency	26.5 GHz
Velocity of Propagation	76%	Capacitance	87 pF/m
Screening Effectiveness	> 90 dB	Withstanding Voltage	1500 V DC
Phase Stability (Flexure @ 26.5GHz)	± 4°	Phase Stability (Temp -55 to +125°C)	≤ 1000 ppm

3. MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Parameter	Specification
Min. Bend Radius (Static)	22 mm	Min. Bend Radius (Dynamic)	45 mm
Weight	48 g/m	Operating Temperature	-55°C to +125°C

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

Insertion Loss Formula: $IL = K1 * \sqrt{F_MHz} + K2 * F_MHz$ | $K1 = 1.0500, K2 = 0.0025$

Frequency (GHz)	Nom. Attenuation (dB/m)	Nom. Attenuation (dB/100m)	Max Power Handling (W @ 40°C)
0.5	0.25	24.7	520
1.0	0.36	35.7	365
2.4	0.57	57.4	230
5.0	0.87	86.8	155
10.0	1.30	129.8	105
18.0	1.90	189.6	74
26.5	2.47	246.9	58