

PS760L-18G-BF

Low Loss Phase Stable Coaxial Cable (50 Ω / DC–18 GHz)

Key Features



- Broadband Performance: DC to 18 GHz
- Low Density PTFE (LD-PTFE) for High Velocity of Propagation (83%)
- Double Shielding Structure with High Screening Effectiveness (>90 dB)
- Durable Blue FEP Outer Jacket with 7.60 mm Outer Diameter
- Wide Operating Temperature Range: -55°C to +165°C

1. Construction & Dimension Specifications

Layer	Material	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper (1/2.30)	2.30
Insulation	LD-PTFE (Low Density PTFE)	6.25
Inner Shield	Self-adhesive Aluminium Foil	6.33
Outer Shield	Silver Plated Copper Wire Braid	6.84
Jacket	Blue FEP	7.60

2. Electrical Performance

Impedance	50 ± 1.5 Ω
Capacitance	88 pF/m
Velocity of Propagation	83%
Max Frequency	18 GHz
Screening Effectiveness	> 90 dB
Dielectric Withstanding Voltage	3000 V@DC

3. Mechanical Performance

Min. Bend Radius (Single)	38 mm
Min. Bend Radius (Repeated)	76 mm
Operating Temp. Range	-55°C to +165°C

4. Attenuation & Power Handling Ratings (@40°C & Sea Level)

Frequency (MHz)	Nom. Attenuation (dB/100m)	Max Power Handling (W)	Frequency (MHz)	Nom. Attenuation (dB/100m)	Max Power Handling (W)
300	8.03	2669	8000	47.25	453
500	10.47	2669	10000	53.78	398
1000	15.07	1422	12400	61.02	351
2000	21.83	982	15000	68.34	314
3000	27.23	787	18000	76.27	281
6000	40.09	535	--	--	--

Insertion Loss Formula: IL (dB/100m) = K1 * √(F_MHz) + K2 * F_MHz | K1 = 0.448000, K2 = 0.000898