

PS760LS-18G-F

Stranded Conductor RF Coaxial Cable Datasheet



Key Performance Features

- **Stranded 19/0.48mm SPC Conductor:** High flexibility and excellent flex endurance.
- **LD-PTFE Dielectric:** High velocity of propagation (83%) and ultra-low insertion loss.
- **Dual Shielding:** Self-adhesive aluminium foil + silver-plated copper braid (>90 dB shielding).
- **Durable FEP Jacket:** Rugged protection suitable for demanding industrial and aerospace environments.

1. CABLE CONSTRUCTION & DIMENSIONS

Construction Layer	Material Selection	Construction Details	Nom. O.D. (mm)
Inner Conductor	Stranded Silver Plated Copper	19 / 0.48 mm (Stranded)	2.40
Insulation	Low Density PTFE (LD-PTFE)	—	6.35
Inner Shield	Self-adhesive Aluminium Foil	—	6.43
Outer Shield	Silver Plated Copper Braid	—	6.94
Jacket	Blue FEP	—	7.60

2. ELECTRICAL PARAMETERS

Impedance	50 Ω
Capacitance	88 pF/m
Velocity of Prop.	83%
Max Operating Freq.	18 GHz
Screening Effect.	>90 dB
Withstanding Volts	3000 V DC

3. MECHANICAL & ENVIRONMENTAL

Static Min. Bend Radius	40.00 mm
Dynamic Min. Bend Radius	80.00 mm
Weight	0.134 kg/m
Operating Temp. Range	-55 ~ +85 °C

Insertion Loss (IL) Formula:

$IL = K1 * \sqrt{F_MHz} + K2 * F_MHz$ (K1 = 0.537309, K2 = 0.000958)

4. ATTENUATION & POWER HANDLING PERFORMANCE MATRIX

Frequency (MHz)	Nom. Attenuation (dB/100m @ 25°C)	Max Power Handling (W @ 40°C)
300	9.59	2141
500	12.49	2141
1000	17.95	1144
2400	28.62	718
3000	32.30	636
6000	47.36	434
8000	55.72	369
10000	63.31	324
12400	71.71	286
15000	80.17	256
18000	89.32	230