

7/8" Low Loss Corrugated Aluminum Tube Coaxial Cable

Low loss aluminum tube cable, providing high-performance solutions for cost-sensitive projects.

IMPEDANCE	OUTER DIAMETER
50 ± 1 Ω	**28.4 mm**
MAX. FREQUENCY	
5.0 GHz	

7/8" Low Loss | 50Ω | 50Ω RF Corrugated Aluminum Tube Coaxial Cable

Custom lengths, connectors and pre-assembled jumpers are available. Send us your specification for a quotation.

TECHNICAL DATA

Technical parameters

Source: 2026 Technical Selection Manual

STRUCTURE

Inner conductor	smooth copper tube 9.45 mm
Dielectric	foam PE 23.0 mm
Outer conductor	annular corrugated copper tube 25.4 mm
Jacket	PE or LSZH/FRNC 28.4 mm

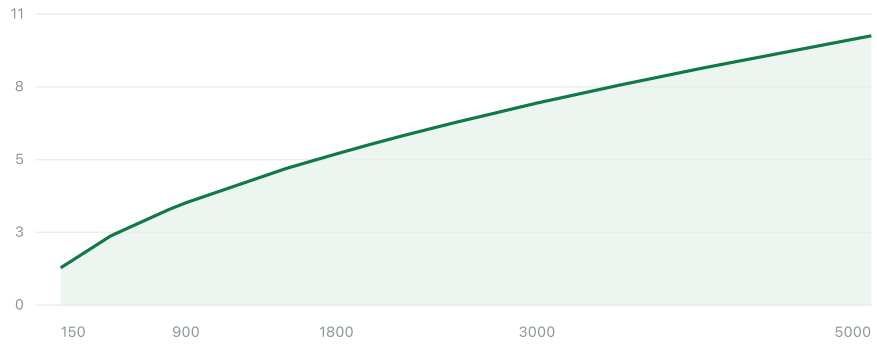
ELECTRICAL

Characteristic impedance	50 ± 1 Ω
Velocity of propagation	87 % (foam PE)
Nominal capacitance	76 pF/m
Peak power	85 kW
Max. frequency	5.0 GHz
VSWR	≤ 1.10 (≤ 3 GHz); ≤ 1.15 (3– 4 GHz); ≤ 1.20 (4–6 GHz)
Insulation resistance	≥ 5000 MΩ·km
DC breakdown voltage	≥ 2 kV (small size) ~ 16 kV (large size)
PIM	PIM (3rd-order, 2 × 20W) ≤ –160 dBc

MECHANICAL & ENVIRONMENT

Min. bending radius (single/multi)	150 / 275 mm
Tensile strength	1700 N
Weight	≈ 565 kg/km
Jacket material	PE / LSZH/FRNC
Installation temperature	≥ –20 °C (preheat required for low-temperature installation)
Operating temperature	PE –40 ~ +85 °C; FRNC –25 ~ +70 °C
Standards	IEC 61196-1, YD/T 1092, GB/T 14864
Applications	macro-site main feeder, long-distance feed; for use with DIN 7/16 or 4.3-10 connectors

ATTENUATION & POWER



Attenuation in dB/100 m at 20 °C, nominal values (±5%).

MHz	dB/100m	MHz	dB/100m
150	1.35	2200	6.14
450	2.51	2500	6.6
800	3.47	2700	6.89
900	3.71	3000	7.32
1500	4.95	3500	7.98
1800	5.48	4000	8.6
2000	5.82	5000	9.76

Product description

The 7/8-inch Low-Loss Corrugated Aluminum Tube 50 Ohm Coaxial Cable is engineered for high-efficiency RF signal transmission, designed to minimize signal attenuation across long distances. This cable is characterized by its low-loss properties, making it ideal for applications where signal integrity is paramount. Its aluminum tube provides robust electromagnetic interference (EMI) shielding, ensur