

7/8" Low Loss Annular Corrugated Copper Tube Coaxial Cable

Low loss version, further reducing transmission loss and improving signal quality.

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

7/8" Low Loss | 50Ω | 50Ω RF Corrugated Copper 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

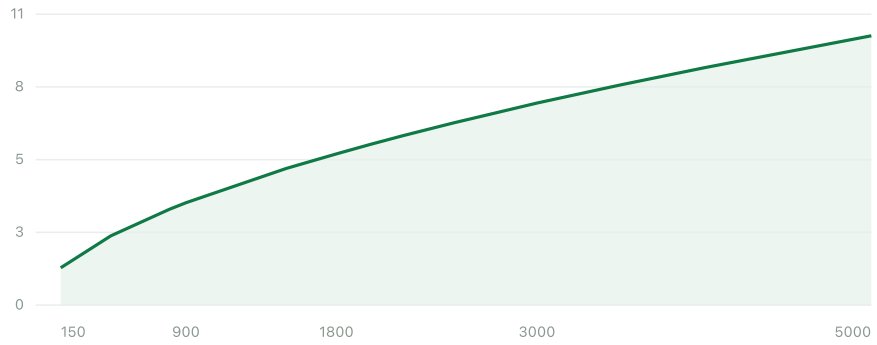
ELECTRICAL

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

Presenting the 7/8-inch Low-Loss Corrugated Copper Tube 50 Ohm Coaxial Cable, a specialized cable designed for applications where signal attenuation is a critical concern. This cable excels in minimizing signal loss over long distances, thanks to its advanced dielectric material and precise engineering. The corrugated copper tube offers exceptional shielding against electromagnetic interference, p