

7/8" Super Flexible Annular Corrugated Copper Tube Coaxial Cable

Large size super flexible design, suitable for long-distance low-loss transmission.

IMPEDANCE	OUTER DIAMETER
50 ± 1 Ω	**27.5 mm**
MAX. FREQUENCY	
4.9 GHz	

7/8" Super Flexible | 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 9.4 mm
Dielectric	foam PE 22.2 mm
Outer conductor	helical corrugated copper tube 24.9 mm
Jacket	PE or LSZH/FRNC 27.5 mm

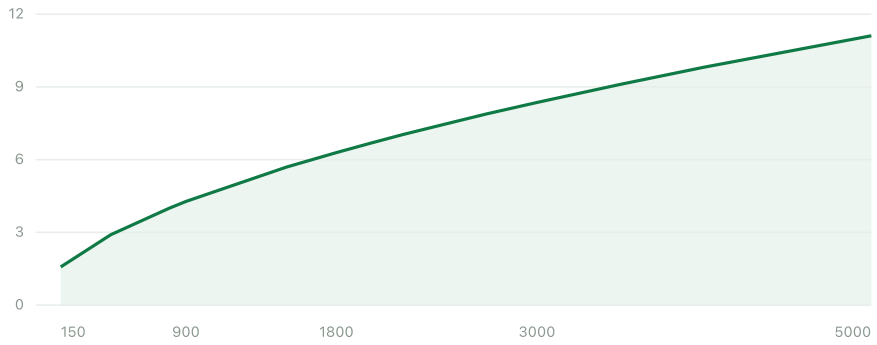
ELECTRICAL

Characteristic impedance	50 ± 1 Ω
Velocity of propagation	87 % (foam PE)
Nominal capacitance	76 pF/m
Peak power	90 kW
Max. frequency	4.9 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)	90 / 130 mm
Tensile strength	1020 N
Weight	≈ 520 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	1.54	2200	6.88
450	2.84	2500	7.38
800	3.91	2700	7.71
900	4.18	3000	8.17
1500	5.56	3500	8.9
1800	6.15	4000	9.59
2000	6.52	5000	10.86

Product description

Meet the 7/8-inch Super-Flexible Corrugated Copper Tube 50 Ohm Coaxial Cable, a high-performance cable engineered for signal transmission in challenging conditions. Its ultra-flexible nature allows for smooth maneuvering in tight spaces and frequent repositioning without signal compromise. The corrugated copper tube encases the cable, delivering top-tier shielding that significantly dampens electr