

1/2" Annular Corrugated Copper Tube Coaxial Cable

Standard 1/2 inch annular corrugated copper tube cable, low VSWR, high power capacity.

IMPEDANCE	OUTER DIAMETER
50 ± 1 Ω	**15.9 mm**
MAX. FREQUENCY	
8.8 GHz	

1/2" Annular | 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	CCA 4.8 mm
Dielectric	foam PE 12.2 mm
Outer conductor	annular corrugated copper tube 13.8 mm
Jacket	PE or LSZH/FRNC 15.9 mm

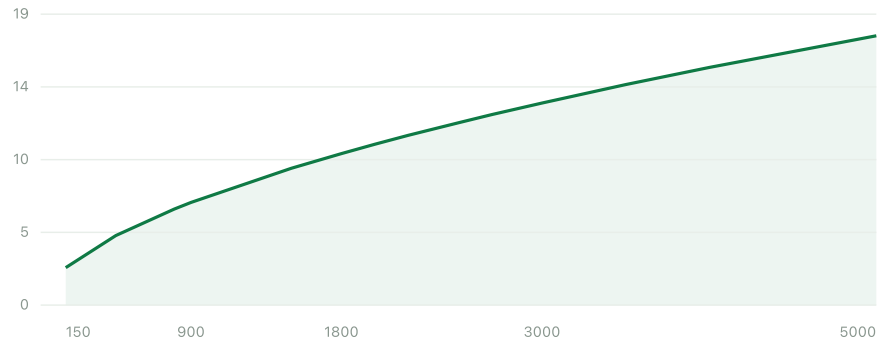
ELECTRICAL

Characteristic impedance	50 ± 1 Ω
Velocity of propagation	87 % (foam PE)
Nominal capacitance	76 pF/m
Peak power	40 kW
Max. frequency	8.8 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)	80 / 125 mm
Tensile strength	1130 N
Weight	≈ 250 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, indoor distribution trunk; 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	2.49	2200	11.28
450	4.62	2500	12.12
800	6.38	2700	12.66
900	6.82	3000	13.43
1500	9.09	3500	14.65
1800	10.07	4000	15.79
2000	10.69	5000	17.9

Product description

Introducing the 1/2-inch Standard Corrugated Copper Tube 50 Ohm Coaxial Cable, a reliable conduit for RF signals in a variety of communication settings. This cable's standard flexibility is well-suited for installations that demand consistent performance with minimal maintenance. Its corrugated copper tube provides shielding against EMI, ensuring signal clarity and integrity over moderate to long