

1-1/4" Annular Corrugated Copper Tube Coaxial Cable

Large diameter low-loss transmission line, suitable for large communication systems.

IMPEDANCE	OUTER DIAMETER
50 ± 1 Ω	**9.8 mm**
MAX. FREQUENCY	
15.8 GHz	

1-1/4" 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 2.6 mm
Dielectric	foam PE 6.8 mm
Outer conductor	annular corrugated copper tube 7.7 mm
Jacket	PE or LSZH/FRNC 9.8 mm

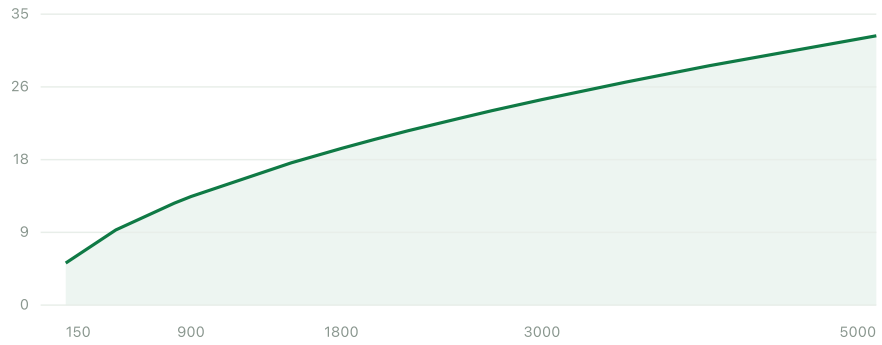
ELECTRICAL

Characteristic impedance	50 ± 1 Ω
Velocity of propagation	87 % (foam PE)
Nominal capacitance	76 pF/m
Peak power	12.1 kW
Max. frequency	15.8 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)	40 / 80 mm
Tensile strength	910 N
Weight	≈ 130 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	indoor distribution terminal, short jumper, micro base station; 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	5.07	2200	21.04
450	9.07	2500	22.51
800	12.31	2700	23.45
900	13.1	3000	24.79
1500	17.17	3500	26.9
1800	18.91	4000	28.88
2000	20	5000	32.5

Product description

Introducing the 1 1/4-inch Standard Corrugated Copper Tube 50 Ohm Coaxial Cable, a heavy-duty option for RF signal transmission that combines robust shielding with reliable performance. This cable is crafted with a standard flexibility that supports a wide range of installation requirements, from fixed to semi-flexible applications. The corrugated copper tube provides a high level of electromagnet