

3/8" Annular Corrugated Copper Tube Coaxial Cable

Standard annular corrugated structure, stable and reliable transmission performance.

IMPEDANCE	OUTER DIAMETER
50 ± 1 Ω	**11.1 mm**
MAX. FREQUENCY	
13.5 GHz	

3/8" 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 3.1 mm
Dielectric	foam PE 7.8 mm
Outer conductor	annular corrugated copper tube 9.5 mm
Jacket	PE or LSZH/FRNC 11.1 mm

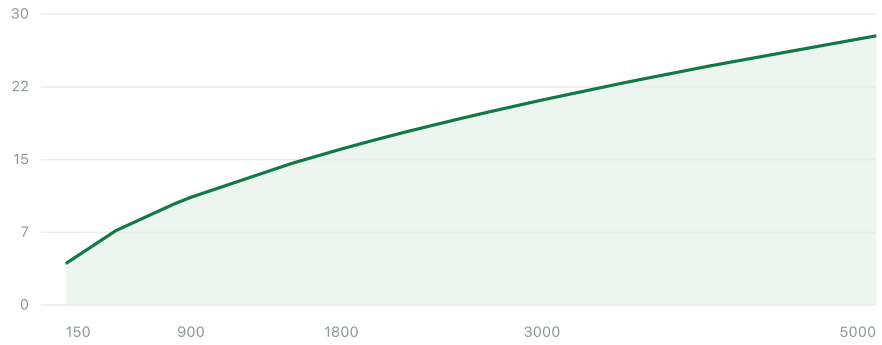
ELECTRICAL

Characteristic impedance	50 ± 1 Ω
Velocity of propagation	87 % (foam PE)
Nominal capacitance	76 pF/m
Peak power	15.6 kW
Max. frequency	13.5 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)	30 / 60 mm
Tensile strength	1100 N
Weight	≈ 170 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, repeater jumper; 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	4.22	2200	17.71
450	7.59	2500	18.96
800	10.32	2700	19.75
900	10.99	3000	20.9
1500	14.43	3500	22.69
1800	15.91	4000	24.36
2000	16.83	5000	27.45

Product description

The 3/8-inch Standard Corrugated Copper Tube 50 Ohm Coaxial Cable is an adept solution for robust RF signal transmission, combining reliability with consistent performance. Its copper tube construction offers a high level of shielding effectiveness, ensuring signals remain strong and free from interference. The cable's standard flexibility makes it suitable for a range of applications, including o