

3/8" Super Flexible Spiral Corrugated Copper Tube Coaxial Cable

3/8 inch super flexible design, suitable for installation environments requiring frequent bending.

IMPEDANCE	OUTER DIAMETER
50 ± 1 Ω	**10.2 mm**
MAX. FREQUENCY	
15.0 GHz	

3/8" 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	CCA 2.6 mm
Dielectric	foam PE 6.7 mm
Outer conductor	helical corrugated copper tube 9.1 mm
Jacket	PE or LSZH/FRNC 10.2 mm

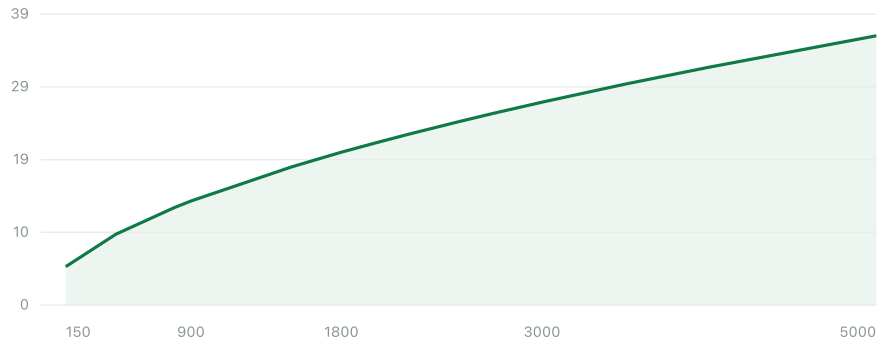
ELECTRICAL

Characteristic impedance	50 ± 1 Ω
Velocity of propagation	87 % (foam PE)
Nominal capacitance	76 pF/m
Peak power	13.2 kW
Max. frequency	15.0 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)	15 / 30 mm
Tensile strength	950 N
Weight	≈ 155 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	5.13	2200	22.75
450	9.44	2500	24.42
800	12.98	2700	25.49
900	13.86	3000	27.02
1500	18.4	3500	29.43
1800	20.36	4000	31.69
2000	21.58	5000	35.87

Product description

The 3/8-inch Super-Flexible Corrugated Copper Tube 50 Ohm Coaxial Cable is a premium option for high-frequency signal transmission where flexibility and durability are paramount. This cable's corrugated copper tube provides exceptional shielding, significantly reducing electromagnetic interference and preserving signal clarity. Its ultra-flexible design is tailored for dynamic applications, such a