

1/2" Plenum-Rated Armored Cable

SC-PL-Half-A

Overview

1/2" Plenum-Rated Armored Copper Coaxial Cable for Public Safety Applications that Require Mechanical Protection.

Spooled, connectors not included. SureCall N-Male connector is part # SC-CN-099.

Construction Materials and Dimensions				
Inn er Conductor	Material	Copper Clad Aluminum Wire		
	Diameter, in.	0.189		
Dielectric	Material	PE Spline		
	Diameter, in.	0.465		
Outer Conductor	Material	Ring Corrugated Copper		
	Diameter, in.	0.543		
Jacket	Material	PVC, Plenum Rated		
	Diameter, in.	0.629		
Electrical Specifications				
Inner conductor DC resistance, /kft		0.486		
Outer conductor DC resistance, /kft		0.689		
Impedance,		50 ±2		
Inductance, H/ft		0.058		
Capacitance, F/ft		23		
Propogation velocity, %		88		
DC breakdown voltage, kV		6.0		
Insulation resistance, M/km		>5X10 ³		
Peak Power, kW		40		
Screening a ttenu ation, dB		>120		
Cut-off frequency, GHz		8.80		

Mechanical Specifications		
Bending radius, in.	Single	2.76
benunig radius, m.	Repeated	4.92
Tens ile strength, lbs.		254
Crush resistance, lb/in.		80
Bending moment, ft lb.		11.4
Storage Temperature, °F		-94 to +185
Installation Temperature, °F		-40 to +140
Operating Temperature, °F		-67 to +185



Attenuation

Frequency	dB/100ft	dB/100m
10	0.21	0.67
100	0.67	2.19
200	0.96	3.15
450	1.48	4.85
800	2.03	6.65
900	2.15	7.07
100 0	2.30	7.53
1500	2.88	9.46
180 0	3.20	10.50
200 0	3.40	11.16
230 0	3.69	12.11
300 0	4.36	14.16
6000	6.58	21.58

VSWR

806-960 MHz	1.15
1700-2400 MHz	1.15
5-3000 MHz	1.25

Fire Retardant Properties

ETL Listed to UL 444 Canadian CSA C.22.2/FT6 CATV/CMP NFPA-262 *NFPA 72 section 12.4.2 Pathway

References

• Per NFPA 72, 2019, section 12.4.2 Pathway Survivability Level 1.

Pathway survivability Level 1 shall consist of pathways in buildings that are fully protected by an automatic sprinkler system in accordance with NFPA 13 with any interconnecting conductors, cables, or other physical pathways protected by metal raceways or metal armored cables.

• Per NFPA 70, 2014, Raceway is defined as:

An enclosed channel of metallic or nonmetallic materials designed especially for holding wires, cables, or busbars, with additional functions as permitted in this code.

• Per NFPA 70, 2014

Section 348.2 Definition.

Flexible Metal Conduit (FMC). A raceway of circular cross section made of helically wound, formed, interlocked metal strip