
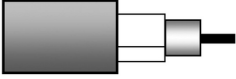


Product: [CX3C1](#) 

COAX 3 FOAM F18 PE CATV



Product Description

COAX 3 FOAM F18 PE CATV

Technical Specifications

Product Overview

Environmental Space:	Outdoor
Suitable Applications:	Coaxial cables used in cabled distribution networks designed according to the European Standard EN 50117; Operating at frequencies between 5 MHz and 2150 MHz; The International Standard IEC 1196

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
8	Solid	BC - Bare Copper	3.38 mm	0.03 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	14.9 mm	0.2 mm

Insulation, Table Note: Centricity min. 85%

Outer Shield Material

Type	Material	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance
Tape	Copper	5 mm	15.3 mm	0.3 mm

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	18 mm	0.3 mm

OuterJacket1, Table Note: According to European Standard HD 624

Construction and Dimensions

Min Elongation at Breakof Jacket:	300 %
Min Tensile Strength of Jacket:	10 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
1.9 Ohm/km	4.5 Ohm/1000ft	2.6 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
54 pF/m	2 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance

75 Ohm	3 Ohm	Min. 46 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.4 dB/100m
50 MHz	1.3 dB/100m
100 MHz	1.8 dB/100m
200 MHz	2.6 dB/100m
400 MHz	3.9 dB/100m
600 MHz	4.8 dB/100m
800 MHz	5.7 dB/100m
1000 MHz	6.5 dB/100m
1350 MHz	7.7 dB/100m
1750 MHz	9 dB/100m
2150 MHz	10.2 dB/100m
2400 MHz	10.9 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
84 %	2 %

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	26 dB
30 - 470 MHz	26 dB
470 - 862 MHz	22 dB
862 - 2400 MHz	18 dB

High Freq Table Note: In each frequency band, 3 peak values up to 4 dB lower are allowed

Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	100 dB

Voltage

Voltage Test Dielectric
3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	267 kg/km
Max Recommended Pulling Tension:	1200 N
Min Bend Radius (W/o Pulling Strength):	180 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	53-530 N at 50 mm N

Standards

ISO/IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
Series Type:	CATV-Trunk Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Part Number

Variants

Item #	Color	Length
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CX3C1.001050	Black	1,050 m
CX3C1.00700	Black	700 m
CX3C1.009999	Black	1,049 m
CX3C1.011050	Green	1,050 m
CX3C1.01700	Green	700 m
CX3C1.019999	Green	1,049 m
CX3C1.K1700	Green	700 m

History

Update and Revision:	Revision Number: 0.150 Revision Date: 01-31-2020
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