
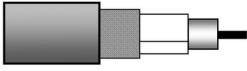


Product: [CX3C2](#) 

COAX 3 FOAM FB20 FRNC/LSZH CATV



Product Description

COAX 3 FOAM FB20 FRNC/LSZH CATV

Technical Specifications

Product Overview

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

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	14.9 mm	0.2 mm

Table Notes:	Centricity min. 85%
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Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bare Copper (BC)	100%	5 mm			
Braid	2	Bare Copper (BC)	55%		15.8 mm	0.3 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	19.8 mm	0.3 mm

Table Notes:	According to European Standard EN 50290-2-20
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Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 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
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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

Table Notes: Max. attenuation 10% higher

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	23 dB
862 - 2400 MHz	18 dB

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

Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	95 dB

Screening Class: A+

Transfer Impedance

Transfer Impedance
Max. 2.5 mOhm/m
Typ. 1.1 mOhm/m

Voltage

Voltage Test Dielectric
3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	400 kg/km
Max. Pull Tension:	1200 N
Min Bend Radius (W/o Pulling Strength):	200 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	53-530 N at 50 mm N

Standards

IEC Compliance:	IEC 1196
CPR Euroclass:	Dca-s2,d2,a1
CENELEC Compliance:	EN 50117 and EN 50117-1
Series Type:	CATV-Trunk Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
CX3C2.00700	Gray	Reel	700 m	8719605047694
CX3C2.001050	Gray	Reel	1,050 m	8719605047687

History

Update and Revision:	Revision Number: 0.186 Revision Date: 12-17-2020
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