
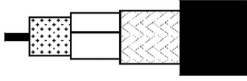


Product: [CX4C2](#) 

## COAX 4 FOAM FB14 FRNC/LSZH CATV



### Product Description

COAX 4 FOAM FB14 FRNC/LSZH CATV

### Technical Specifications

#### Product Overview

Environmental Space:	Indoor - Euroclass Eca
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
12	Solid	BC - Bare Copper	2.23 mm	0.03 mm	1

Conductor Count: 1

##### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	10.2 mm	0.2 mm

Insulation, Table Note: Centricity min. 85%

##### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper		4 mm			
Braid	2	BC - Bare Copper	59 %		11 mm	0.3 mm	5 %

##### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	13.8 mm	0.3 mm

OuterJacket1, Table Note: According to European Standard HD 624

#### 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
4.5 Ohm/km	9 Ohm/1000ft	4.5 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

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.6 dB/100m
50 MHz	1.9 dB/100m
100 MHz	2.8 dB/100m
200 MHz	4 dB/100m
400 MHz	5.9 dB/100m
600 MHz	7.4 dB/100m
800 MHz	8.8 dB/100m
1000 MHz	10 dB/100m
1350 MHz	11.9 dB/100m
1750 MHz	13.9 dB/100m
2150 MHz	15.7 dB/100m
2400 MHz	16.8 dB/100m

#### Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
82 %	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

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	95 dB

Screening Class: A+

#### Transfer Impedance

Transfer Impedance
Max. 2.5 mOhm/m
Typ. 1.9 mOhm/m

#### Voltage

Voltage Test Dielectric
3.0 kV DC

### Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-25°C To +70°C
Operating Temp Range:	-25°C To +70°C

### Mechanical Characteristics

Bulk Cable Weight:	196 kg/km
Max Recommended Pulling Tension:	400 N
Min Bend Radius (W/o Pulling Strength):	150 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	35-350 N at 50 mm N

### Standards

ISO/IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
GENELEC 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

## Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability: IEC 60332-1-2 and IEC 60332-3-24

LOI of Jacket: Min. 35 %

Amount of Halogen acc. to IEC 60754-1 & EN50267-1: Zero

## Part Number

### Variants

Item #	Color	Length
CX4C2.001000	Gray	1,000 m
CX4C2.00500	Gray	500 m
CX4C2.009999	Gray	1,000 m

## History

Update and Revision: Revision Number: 0.164 Revision Date: 01-31-2020

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