
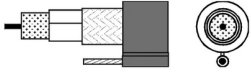


Product: [CX4C3](#) 

COAX 4 FOAM FB14 PE MESSENGER CATV



Product Description

COAX 4 FOAM FB14 PE MESSENGER 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
12	Solid	BC - Bare Copper	2.23 mm	0.03 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	10.2 mm	0.2 mm

Table Notes: Centricity min. 85%

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	13.8 mm	0.3 mm

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

Construction and Dimensions

OuterJacket1, Messenger Diameter:	5.9 +/- 0.3 mm
OuterJacket1, Messenger Material:	Zinc plated steelwires
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
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

Table Notes: Max. attenuation 10% higher

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

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. 1.9 mOhm/m

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:	229 kg/km
Max. Pull Tension:	6000 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

IEC Compliance:	IEC 1196
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GENELEC Compliance:	EN 50117 and EN 50117-1
Series Type:	CATV-Trunk Type

Applicable Environmental and Other Programs

Environmental Space:	Outdoor
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

History

Update and Revision:	Revision Number: 0.172 Revision Date: 09-30-2020
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