
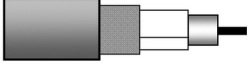


Product: [CX3C2](#) 

COAX 3 FOAM FB20 FRNC/LSZH CATV



Product Description

COAX 3 FOAM FB20 FRNC/LSZH CATV

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Environmental Space: | Indoor - Euroclass Dca |
| 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 |

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

Outer Jacket Material

| Material | Nominal Diameter | Diameter +/- Tolerance |
|-------------|------------------|------------------------|
| LSZH / FRNC | 19.8 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 |
|--------------------|---------------------|-----------------|
| 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 |

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 | 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. 1.1 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 Recommended Pulling 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

| | |
|---------------------|-------------------------|
| ISO/IEC Compliance: | IEC 1196 |
| CPR Euroclass: | Dca-s2,d2,a1 |
| 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, LS0H, Toxicity Testing

| | |
|--|----------------------------------|
| ISO/IEC Flammability: | IEC 60332-1-2 and IEC 60332-3-24 |
| Amount of Halogen acc. to IEC 60754-1 & EN50267-1: | Zero |

Part Number

Variants

| Item # | Color | Length |
|--------------|-------|---------|
| CX3C2.001050 | Gray | 1,050 m |
| CX3C2.00700 | Gray | 700 m |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.166 Revision Date: 01-31-2020 |
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