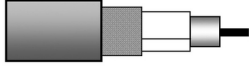




Product: [CX3C2](#)

CX3C2 - Broadband Coax 3, 8 AWG Solid BC, Foil + 60% BC Braid, LSZH Jkt



Product Description

Broadband Coax 3, 8 AWG Solid Bare Copper Conductor, PE Insulation, Copper Foil + 60% Bare Copper Braid Shield, LSZH Jacket.

Technical Specifications

Product Overview

Suitable Applications:	Broadband, Cable Television (CATV)
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Construction Details

Series Type:	CATV-Trunk Type
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	8 AWG	Solid	3.38 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	14.9 mm (0.587 in)

Table Notes:	Centricity min. 85%
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Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Bare Copper (BC)	100%
2	Braid	Bare Copper (BC)	55%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	19.8 mm

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

Regularity of Impedance:	Min. 46 dB
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Return Loss (RL)

Frequency	Min. Return Loss
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
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Attenuation

Frequency	Nom. Attenuation
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

Electricals

Max. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
1.9 Ohm/km (0.58 Ohm/1000ft)	2.6 Ohm/km (0.79 Ohm/1000ft)	54 pF/m (16 pF/ft)	75 Ohm	84%

Transfer Impedance

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

Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	95 dB

Screening Class: A+

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.
200 mm (7.9 in)

Max. Pull Tension:	1200 N (270 lbf)
Bulk Cable Weight:	400 kg/km

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24
CPR Compliance:	CPR Euroclass: Dca-s2,d2,a1
ISO/IEC Compliance:	IEC 61196, IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50117-1
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision: Revision Number: 0.222 Revision Date: 04-29-2024

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