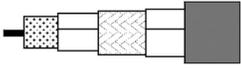


Product: [CX9D0](#) 

COAX 9 DUOBONDPLUS PVC



Product Description

COAX [1.1/4.8] CX9D0 DUOBONDPLUS PVC CATV

Technical Specifications

Product Overview

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 and the international standard IEC 1196
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
18	Solid	1.1 mm	0.02 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	4.8 mm	0.15 mm

Table Notes:	Gas Injected
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Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	70%	1 mm			
Braid	2	Tinned Copper (TC)	70%				5%
Tape	3	Bi-Laminate (Alum+Poly)		1 mm	5.6 mm	0.2 mm	

Table Notes:	Foil Tape has L-Fold
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Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	7.1 mm	0.2 mm

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

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Outer Conductor DCR
19 Ohm/km	33 Ohm/km	14 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
51 pF/m	2 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
75 Ohm	3 Ohm	40 dB

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
30-470 MHz	27 dB
470-1000 MHz	24 dB
1000-2000 MHz	18 dB
2000-3000 MHz	16 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.5 dB/100m
50 MHz	4.0 dB/100m
100 MHz	5.7 dB/100m
200 MHz	8.2 dB/100m
400 MHz	11.8 dB/100m
600 MHz	14.7 dB/100m
800 MHz	17.2 dB/100m
1000 MHz	19.4 dB/100m
1350 MHz	23.0 dB/100m
1750 MHz	27.0 dB/100m
2000 MHz	28.7 dB/100m
2150 MHz	30.0 dB/100m
2400 MHz	32.0 dB/100m
3000 MHz	36.0 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
86%	2%

Table Notes: Maximum attenuation is 10% higher

Screening

Frequency [MHz]	Min. Screening Attenuation
30-1000 MHz	95 dB
1000-2000 MHz	85 dB
2000-3000 MHz	75 dB

Screening Class: A+

Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30 MHz	max. 2.5 mOhm/m

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Rating:	-5 °C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	60 N
Min Bend Radius (W/o Pulling Strength):	35 mm
Max Crush Resistance (Load of 700N):	1 %

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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EU RoHS Compliance Date (yyyy-mm-dd):	2015-01-07
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Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color	Putup Type	Length	EAN
CX9D0.01B100	Black	Flat Box	100 m	8719605123008
CX9D0.01U250	Black	UnReel	250 m	8719605123015
CX9D0.01500	Black	Reel	500 m	8719605123022
CX9D0.00B100	White	Flat Box	100 m	8719605048196
CX9D0.00250	White	Reel	250 m	8719605048172
CX9D0.00U250	White	UnReel	250 m	8719605048202
CX9D0.00500	White	Reel	500 m	8719605048189

History

Update and Revision:	Revision Number: 0.82 Revision Date: 09-30-2020
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