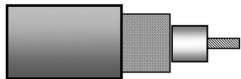


Part Number: H12B00

COAX H12 PVC CATV



Product Description

COAX H12 PVC CATV

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
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	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
24	Stranded	BC - Bare Copper	7x0.20 mm	0.6 in	0.02 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	3.5 mm	0.15 mm

Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	BC - Bare Copper	90 %	4.05 mm	0.15 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	5.6 mm	0.3 mm

OuterJacket1, Table Note: According to European Standard HD 624

Construction and Dimensions

Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
80 Ohm/km	92.5 Ohm/1000ft	12.5 Ohm/km

Capacitance

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

Impedance

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

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	2.9 dB/100m
50 MHz	9.4 dB/100m
100 MHz	13.3 dB/100m
200 MHz	19 dB/100m
400 MHz	27.2 dB/100m
600 MHz	33.7 dB/100m
800 MHz	39.2 dB/100m
1000 MHz	44.1 dB/100m
1350 MHz	51.7 dB/100m
1600 MHz	56.7 dB/100m
1750 MHz	59.5 dB/100m
2150 MHz	66.5 dB/100m
2400 MHz	70.6 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
66 %	2 %

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB
862 - 2150 MHz	16 dB

High Freq Table Note:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	50 dB

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-15°C To +70°C
Operating Temp Range:	-15°C To +70°C

Mechanical Characteristics

Torsion Test: Min Number of Torsions:	100000
Torsion Test: Description:	PMS XN-039131
Min Bend Radius (W/o Pulling Strength):	25 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	4.7-47 N at 25 mm N

Standards

ISO/IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	Mini 59/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color	Length
H12B00.012000	Beige	2,000 m
H12B00.01500	Beige	500 m
H12B00.01B100	Beige	100 m
H12B00.022000	Beige	2,000 m
H12B00.02B100	Beige	100 m
H12B00.00500	Black	500 m
H12B00.00B100	Black	100 m
H12B00.00B200	Black	200 m

History

Update and Revision:	Revision Number: 0.148 Revision Date: 08-22-2019
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