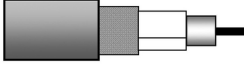


**Part Number:** H121C00

**COAX H121 CU PVC CATV**



## Product Description

COAX [0.8/3.5] H121 CU 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 50117-2-1 and EN 50117-2-4; Operating at frequencies between 5 MHz and 3000 MHz

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
21	Solid	BC - Bare Copper	0.8 mm	0.015 mm	1

Conductor Count:	1
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#### Insulation

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

#### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper		2 mm			
Braid	2	BC - Bare Copper	44 %		4.1 mm	0.15 mm	4 %

#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	5 mm	0.3 mm

OuterJacket1, Table Note:	According to European Standard HD 624
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### 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
35 Ohm/km	59 Ohm/1000ft	24 Ohm/km

#### Capacitance

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

#### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
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75 Ohm	3 Ohm	Min. 40 dB
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#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.7 dB/100m
50 MHz	5.3 dB/100m
100 MHz	7.6 dB/100m
200 MHz	10.8 dB/100m
400 MHz	15.4 dB/100m
600 MHz	19.1 dB/100m
800 MHz	22.2 dB/100m
1000 MHz	25 dB/100m
1350 MHz	29.3 dB/100m
1600 MHz	32.2 dB/100m
1750 MHz	33.8 dB/100m
2150 MHz	37.8 dB/100m
2400 MHz	40.1 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	20 dB
30 - 470 MHz	20 dB
470 - 1000 MHz	18 dB
1000 - 2000 MHz	16 dB
2000 - 3000 MHz	15 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	85 dB

Screening Class:	B
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#### Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30 MHz	Max. 10 mOhm/m

#### Voltage

Voltage Test Dielectric
2.0 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

Min Bend Radius (W/o Pulling Strength):	50 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	6.3-63 N at 25 mm N

### Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-2-1, EN 50117-2-4 and EN 50117-1
RG Type:	59/U Type
Series Type:	Series 59

### Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Flammability, LS0H, Toxicity Testing

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

Variants

Item #	Color	Length
H121C00.00500	White	500 m
H121C00.009999	White	499 m
H121C00.00B100	White	100 m
H121C00.099999	White	999 m
H121C00.09B9999	White	249 m

History

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