



Product: H121A02 ☐

COAX H121 AL PVC TWIN CATV



# **Product Description**

COAX [0.8/3.5] H121 AL PVC TWIN 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	2
Conductor Count: 2					

### Insulation

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

## Outer Shield Material

Ty	ype	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Ta	аре	1	Aluminum/Polyester/Aluminum		2 mm			
Br	raid	2	TC - Tinned Copper	37 %		4.1 mm	0.15 mm	4 %

## Outer Jacket Material

	Material	Nominal Diamete	er Diameter +/- Tolerance
PV	/C - Polyvinyl Chloride	5 mm	0.3 mm
Ou	uterJacket1, Table Note	: Ac	cording to European Standa

## **Construction and Dimensions**

OuterJacket1, Form:	Shotgun
OuterJacket1, Nominal Width:	10.6 mm
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	75 Ohm/1000ft	40 Ohm/km

## Capacitance

Nom. Capacitance	Capacitance Tolerance
53 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	1.7 dB/100m
50 MHz	5.6 dB/100m
100 MHz	7.9 dB/100m
200 MHz	11.3 dB/100m
400 MHz	16.2 dB/100m
600 MHz	20 dB/100m
800 MHz	23.2 dB/100m
1000 MHz	26.1 dB/100m
1350 MHz	30.7 dB/100m
1600 MHz	33.6 dB/100m
1750 MHz	35.3 dB/100m
2150 MHz	39.4 dB/100m
2400 MHz	41.9 dB/100m
3000 MHz	45.9 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	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

### Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	85 dB
Screening Class:	С

## Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30 MHz	Max. 50 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):	25 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):
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## Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2

### **Part Number**

#### Variants

Item #	Color	Length
H121A02.00C100	White	100 m

### History

Update and Revision:	Revision Number: 0.155 Revision Date: 01-31-2020

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