

Product: [H121A02](#) 

## COAX H121 AL PVC TWIN CATV



### Product Description

COAX [0.8/3.5] H121 AL PVC TWIN CATV

### Technical Specifications

#### Product Overview

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
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#### 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

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	3.5 mm	0.15 mm

##### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	100%	2 mm			
Braid	2	Tinned Copper (TC)	40%		4.1 mm	0.15 mm	4%

##### Outer Jacket Material

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

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

#### 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

Table Notes: Max. attenuation 10% higher

#### 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

Table Notes: 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: C

#### 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:	59
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## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

## Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
H121A02.00C100	White	Coil	100 m	8719605085603

## History

Update and Revision:	Revision Number: 0.173 Revision Date: 12-17-2020
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