



Product: [H122A00](#)

COAX H122 AL PVC CATV

Product Description

COAX [0.4/1.9] H122 AL 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; The International Standard IEC 1196
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
26	Solid	BCCS - Bare Copper Covered Steel	0.4 mm	0.01 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	1.95 mm	0.05 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	100%	1 mm			
Braid	2	Tinned Copper (TC)	60%		2.1 mm	0.05 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	3.65 mm	0.15 mm

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

Construction and Dimensions

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

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
450 Ohm/km	490 Ohm/1000ft	40 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	4.65 dB/100m
50 MHz	11.3 dB/100m
100 MHz	15.25 dB/100m
200 MHz	21.05 dB/100m
400 MHz	30 dB/100m
600 MHz	37.15 dB/100m
800 MHz	43.25 dB/100m
1000 MHz	48.5 dB/100m
1350 MHz	56.5 dB/100m
1600 MHz	61.9 dB/100m
1750 MHz	64.75 dB/100m
2150 MHz	72.5 dB/100m
2400 MHz	76.9 dB/100m

Table Notes: Max. attenuation 5% higher

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
80%	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

Table Notes: In each frequency band, 3 peak values up to 4 dB lower are allowed

Screening

Frequency [MHz]	Min. Screening Attenuation
100 - 1000 MHz	85 dB

Table Notes: Flexing with 5 test cycles and 120 mm radius

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

Min Bend Radius (W/o Pulling Strength):	20 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	No shrinkback N

Standards

IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	Mini 59

Applicable Environmental and Other Programs

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

History

Update and Revision:	Revision Number: 0.170 Revision Date: 12-17-2020
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