



Product: [H123A00](#)

COAX H123 AL PVC CATV

Product Description

COAX [0.65/2.9] H123 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
22	Solid	BC - Bare Copper	0.65 mm	0.015 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	2.9 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%	1 mm			
Braid	2	Tinned Copper (TC)	45%		3.4 mm	0.15 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	4.15 mm	0.2 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
55 Ohm/km	92 Ohm/1000ft	37 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
54 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	2.7 dB/100m
50 MHz	7.5 dB/100m
100 MHz	10 dB/100m
200 MHz	13.8 dB/100m
400 MHz	19.9 dB/100m
600 MHz	24.8 dB/100m
800 MHz	29 dB/100m
1000 MHz	32.5 dB/100m
1350 MHz	37.3 dB/100m
1600 MHz	40 dB/100m
1750 MHz	42.2 dB/100m
2150 MHz	47 dB/100m
2400 MHz	50.5 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 - 862 MHz	18 dB
862 - 2400 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	80 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

Bulk Cable Weight:	17.8 kg/km
Min Bend Radius (W/o Pulling Strength):	25 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	5.1-51 N at 25 mm N

Standards

IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
GENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	Mini 59

Applicable Environmental and Other Programs

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

Flammability, LSOH, Toxicity Testing

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H123A00.01B100	Black	Flat Box	100 m	8719605085962
H123A00.04B100	Blue	Flat Box	100 m	8719605085993
H123A00.02B100	Green	Flat Box	100 m	8719605085979
H123A00.03B100	Red	Flat Box	100 m	8719605085986
H123A00.00B100	White	Flat Box	100 m	8719605085948
H123A00.00U250	White	UnReel	250 m	8719605085955
H123A00.00500	White	Reel	500 m	8719605085924

History

Update and Revision:

Revision Number: 0.176 Revision Date: 12-17-2020

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