



## Part Number: H125A00

### COAX H125 AL PVC CATV

#### Product Description

COAX [1.0/4.8] H125 AL 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

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	BC - Bare Copper	1 mm	0.03 mm	1

Conductor Count:	1
Conductor Size:	18 AWG

###### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	4.8 mm	0.15 mm

###### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Aluminum/Polyester/Aluminum		1 mm		
Braid	2	TC - Tinned Copper	34 %		5.4 mm	4 %

###### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	6.8 mm	0.2 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
23 Ohm/km	50 Ohm/1000ft	27 Ohm/km

###### Capacitance

Nom. Capacitance	Capacitance Tolerance
55 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	1.8 dB/100m
50 MHz	4.7 dB/100m
100 MHz	6.5 dB/100m
200 MHz	9.1 dB/100m
230 MHz	9.8 dB/100m
400 MHz	12.9 dB/100m
600 MHz	16 dB/100m
800 MHz	18.6 dB/100m
862 MHz	19.3 dB/100m
1000 MHz	20.9 dB/100m
1350 MHz	24.6 dB/100m
1750 MHz	28.4 dB/100m
2400 MHz	34 dB/100m
3000 MHz	38.6 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
81 %	2 %

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	23 dB
30 - 470 MHz	23 dB
470 - 1000 MHz	20 dB
1000 - 2000 MHz	18 dB
2000 - 3000 MHz	16 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
100 - 1000 MHz	75 dB

Screening Class:	B
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Transfer Impedance

Transfer Impedance
40 mOhm/m

Transfer Impedance Class:	C
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Voltage

Element	Non-UL Voltage Rating	Voltage Test Dielectric
		2.0 kV DC
Voltage test jacket	3750 DC V	

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):	35 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	No shrinkback N

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-2-1, EN 50117-2-4 and EN 50117-1

RG Type:	6/U Type
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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
H125A00.01100	Black	100 m
H125A00.01500	Black	500 m
H125A00.015000	Black	5,000 m
H125A00.01B100	Black	100 m
H125A00.01U250	Black	250 m
H125A00.02B100	Brown	100 m
H125A00.03B100	Gray	100 m
H125A00.00100	White	100 m
H125A00.001000	White	1,000 m
H125A00.00200	White	200 m
H125A00.00250	White	250 m
H125A00.00500	White	500 m
H125A00.005000	White	5,000 m
H125A00.009999	White	499 m
H125A00.00B100	White	100 m
H125A00.00U150	White	150 m
H125A00.00U250	White	250 m
H125A00.099999	White	999 m
H125A00.09B9999	White	249 m
H125A00.105000	White	5,000 m

History

Update and Revision:	Revision Number: 0.145 Revision Date: 05-07-2019
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