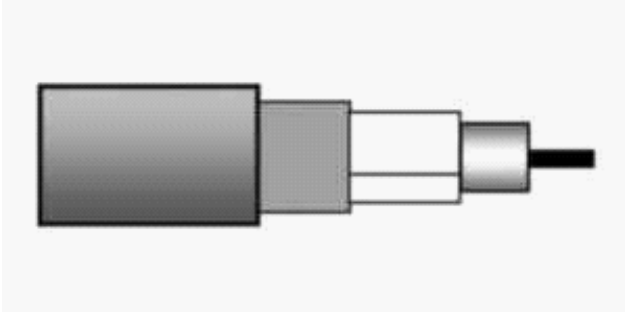


Part Number: H121A00.00250

COAXH121 AL PVC CATV



Product Description

COAX[0.8/3.5] H121 AL PVC CATV

Product Specifications

Application

Suitable Applications:	Coaxial cables used in cabled distribution networks designed according to 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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Technical Specifications

Applicable Patents

Patent:	http://www.belden.com/p
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Bend Radius

Min Bend Radius (W/o Pulling Strength):	25 mm
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CCB-Sub-Crush Resistance

Crush Resistance:	Max. 1% (load of 700N) N
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CCB-Sub-Material

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

CENELEC Compliance:	EN 50117-2-1, EN 50117-2-4 and EN 50117-1
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General Electrical Parameters

Min Insulation Resistance:	10000 MOhm*km
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History

Revision Date (yyyy-mm-dd):	2008-01-21
Revision Number:	5

Stripping Performance

Adhesion Dielectric:	No shrinkback N
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Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
75 Ohm	3 Ohm	Min. 40 dB

Conductor DCR:

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
35 Ohm/km	75 Ohm/1000ft	40 Ohm/km

Delay:

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
84 %	2 %

Voltage:

Voltage Test Dielectric
2 kV DC

High Freq:

Element	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

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

Screening:

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	75 dB
1000 - 2000 MHz	65 dB
2000 - 3000 MHz	55 dB

Transfer Impedance:

Frequency [MHz]	Transfer Impedance
5-30 MHz	Max. 50 mOhm/m

PB HD-SDI Coax Table:

Description	Part No.	UL NEC/C(UL) CEC Type	Standard Lengths	Standard Unit Weight	Conductor (stranding) Diameter Nom. DCR	Nominal Core OD	Shielding Materials Nom. DCR	Nominal OD	Nom. Imp ()	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Attenuation			
Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m			
COAX [0.8/3.5] H121 AL PVC CATV															
COAX [0.8/3.5] H121 AL PVC CATV															
SDI/HDTV	NEC	Hard Code	Hard Code	3.5 mm	Hard code	Aluminum / Polyester / Aluminum		5 mm	Hard Code	84 %	53 pF/m	Hard Code	5 MHz	2.3 dB/100m	Hard Code
Digital Video				Solid		Tape		50 MHz		5.9 dB/100m					
CEC			0.8 in		43 %		100 MHz		8.1 dB/100m						
Bare copper				Tinned copper				230 MHz		12.1 dB/100m					
Braid				400 MHz				15.9 dB/100m							
Hard Code				22.7 dB/100m											

Capacitance:

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

High Frequency (Nominal/Typical):

Element	Frequency [MHz]	Nom. Insertion Loss
5 MHz		2.3 dB/100m
50 MHz		5.9 dB/100m
100 MHz		8.1 dB/100m
230 MHz		12.1 dB/100m

400 MHz	15.9 dB/100m
800 MHz	22.7 dB/100m
862 MHz	23.6 dB/100m
1000 MHz	25.6 dB/100m
1350 MHz	30 dB/100m
1750 MHz	34.5 dB/100m
2150 MHz	38.6 dB/100m
2400 MHz	41 dB/100m
3000 MHz	45.9 dB/100m
Max. attenuation 10% higher	

Insulation:

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

Outerjacket 1:

Element	Material	Nominal Diameter	Diameter +/- Tolerance	
PVC		5 mm	0.2 mm	

According to European Standard HD 624

Conductor:

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	
Solid	Bare copper	0.8 in	0.015 mm	

Other Electrical Information:

Min Insulation Resistance	10000 MOhm*km
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Outershield 1:

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance	
Tape	1	Aluminum / Polyester / Aluminum				1 mm	
Braid	2	Tinned copper			43 %	4.1 mm	4 %

Product Variants

Part Number	Color	Put-Up Type	Length
H121A00+00250	WHITE	Reel	250 m
H121A00+00500	WHITE	Reel	500 m
H121A00+00B100	WHITE	Flat Box	100 m
H121A00+00U300	WHITE	UnReel	300 m
H121A00.00250	WHITE	Reel	250 m
H121A00.00500	WHITE	Reel	500 m
H121A00.008500	WHITE	Reel	8500 m
H121A00.009999	WHITE	Reel	499 m
H121A00.00B100	WHITE	Flat Box	100 m
H121A00.00U300	WHITE	UnReel	300 m
H121A00.01250	BLACK	Reel	250 m
H121A00.01500	BLACK	Reel	500 m
H121A00.01B100	BLACK	Flat Box	100 m
H121A00.02B100	GREEN	Flat Box	100 m
H121A00.03B100	RED	Flat Box	100 m
H121A00.04B100	BLUE	Flat Box	100 m
H121A00.058500	WHITE	Reel	8500 m
H121A00.099999	WHITE	Reel	999 m
H121A00.09B9999	WHITE	Flat Box	299 m
H121A00.00250			

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