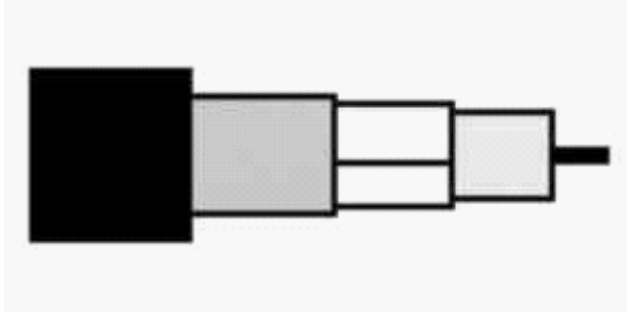


**Part Number:** H126A00.00300  
COAXH126 AL PVC CATV



## Product Description

COAX[1.0/4.6] H126 AL PVC CATV

## Technical Specifications

<b>Suitable Applications:</b>	Coaxial cables used in cabled distribution networks designed according to the European Standard EN 50117; Operating at frequencies between 5 MHz and 3000 MHz; The International Standard IEC 1196
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## Construction and Dimensions

### Conductor:

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance
Solid	Bare copper	1 in	0.03 mm

### Insulation:

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Foamed Polyethylene	4.57 mm	0.15 mm

### Outershield 1:

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Aluminum / Polyester / Aluminum		1 mm		
Braid	2	Tinned copper	35 %		5.25 mm	5 %

### Outerjacket 1:

Element	Material	Nominal Diameter	Diameter +/- Tolerance
	PVC	6.9 mm	0.2 mm

According to European Standard HD 624

<b>Min Elongation at Breakof Jacket:</b>	150 %
<b>Min Tensile Strength of Jacket:</b>	12.5 MPa

## Electrical Characteristics

### Conductor DCR:

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
23 Ohm/km	49 Ohm/1000ft	26 Ohm/km

### Capacitance:

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

Min Insulation Resistance:	10000 MOhm*km
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### Impedance:

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

### High Frequency (Nominal/Typical):

Element	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	9.8 dB/100m
	400 MHz	13 dB/100m
	600 MHz	16.2 dB/100m
	800 MHz	18.7 dB/100m
	1000 MHz	21.1 dB/100m
	1350 MHz	24.9 dB/100m
	1750 MHz	28.8 dB/100m
	2150 MHz	32.3 dB/100m
	2400 MHz	34.4 dB/100m

Max. attenuation 10% higher

### Delay:

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
82 %	2 %

### 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

## Voltage:

Voltage Test Dielectric
2 kV DC

## Screening:

Element	Frequency [MHz]	Min. Screening Attenuation
	100 - 1000 MHz	75 dB

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Screening Class:	C
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## Transfer Impedance:

Transfer Impedance
Max. 40 mOhm/m

## Temperature Range

Installation Temp Range:	-5 to +50 °C
Operating Temp Range:	-40 to +70 °C
Storage Temp Range:	-40 to +70 °C

## Mechanical Characteristics

Min Bend Radius (Wo Pulling Strength):	35 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	No shrinkback N

## Standards

ISO/IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
H126A00.00300	WHITE	Reel	300 m
H126A00.00500	WHITE	Reel	500 m
H126A00.00B100	WHITE	Flat Box	100 m
H126A00.00U250	WHITE	UnReel	250 m
H126A00.03300	BLACK	Reel	300 m
H126A00.03500	BLACK	Reel	500 m
H126A00.039999	BLACK	Reel	299 m
H126A00.03U250	BLACK	UnReel	250 m
H126A00.099999	WHITE	Reel	999 m
H126A00.09B9999	WHITE	Flat Box	249 m
H126A00.10B9999	BLACK	Flat Box	249 m
H126A00.00300			

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