
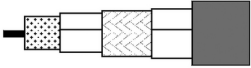


Product: [H126D02](#) 

COAX H126 DUOBONDPLUS PVC



Product Description

COAX [1.0/4.6] H126 DUOBONDPLUS PVC

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; Operating at frequencies between 5 MHz and 3000 MHz; The International Standard IEC 1196

Physical Characteristics (Overall)

Conductor

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

Conductor Count: 1

Insulation

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

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum/Polyester/Aluminum		1 mm			
Braid	2	TC - Tinned Copper	45 %		5.4 mm	0.2 mm	5 %
Tape, (L-folded) bonded to sheath	3	Aluminum/Polyester		1 mm			

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	6.9 mm	0.2 mm

OuterJacket1, Table Note: According to European Standard HD 624

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	37 Ohm/1000ft	14 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	1.8 dB/100m
50 MHz	4.7 dB/100m
100 MHz	6.5 dB/100m
230 MHz	9.8 dB/100m
400 MHz	13 dB/100m
800 MHz	18.7 dB/100m
862 MHz	19.5 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
3000 MHz	39.2 dB/100m

Delay

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

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 470 MHz	20 dB
470 - 1000 MHz	18 dB
1000 - 2000 MHz	16 dB
2000 - 3000 MHz	15 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 After Flexing
30 - 1000 MHz	95 dB
1000 - 2000 MHz	85 dB
2000 - 3000 MHz	75 dB

Voltage

Voltage Test Dielectric
2.0 kV DC

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):	65 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	7.8-78 N at 25 mm N
Adhesion Jacket:	Min. 50 N at 200 mm

Standards

ISO/IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	6/U Type

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
H126D02.02500	Black	500 m
H126D02.025000	Black	5,000 m
H126D02.029999	Black	499 m
H126D02.00250	White	250 m
H126D02.00500	White	500 m
H126D02.005000	White	5,000 m
H126D02.009999	White	499 m
H126D02.00B100	White	100 m
H126D02.00U250	White	250 m

History

Update and Revision:	Revision Number: 0.156 Revision Date: 01-31-2020
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