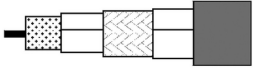


Product: [H126D00](#) 

## COAX H126 DUOBONDPLUS PVC



### Product Description

COAX [1.0/4.6] H126 DUOBONDPLUS PVC

### 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 3000 MHz; The International Standard IEC 1196
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#### 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	PE - Polyethylene (Foam)	4.57 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)	35%		5.4 mm	0.2 mm	5%
Tape	3	Bi-Laminate (Alum+Poly)	100%	1 mm			

##### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	6.9 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
23 Ohm/km	39 Ohm/1000ft	16 Ohm/km

##### Capacitance

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

##### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
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75 Ohm	3 Ohm	Min. 40 dB
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#### 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	9.8 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
3000 MHz	39.2 dB/100m

Table Notes: Max. attenuation 10% higher

#### 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

Table Notes: 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	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):	35 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	No shrinkback N
Adhesion Jacket:	50 N at 200 mm

#### Standards

IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	6/U Type

#### Applicable Environmental and Other Programs

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

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
H126D00.021000	Black	Reel	1,000 m	8719605087294
H126D00.00B100	White	Flat Box	100 m	8719605087263
H126D00.00250	White	Reel	250 m	8719605087249
H126D00.00U250	White	UnReel	250 m	8719605087270
H126D00.00500	White	Reel	500 m	8719605087256
H126D00.011000	White	Reel	1,000 m	8719605087287

### History

Update and Revision:	Revision Number: 0.173 Revision Date: 12-17-2020
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