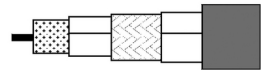


Product: [H126D03](#) 

COAX H126 DUOBONDPLUS LSZH



Product Description

COAX [1.0/4.6] H126 DUOBONDPLUS LSZH

Technical Specifications

Product Overview

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
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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
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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)	45%	1 mm			
Braid	2	Tinned Copper (TC)	45%		5.4 mm	0.2 mm	5%
Tape	3	Bi-Laminate (Alum+Poly)		1 mm			

Outer Jacket Material

Material	Nominal Diameter	Diameter + Tolerance	Diameter - Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.9 mm	0.6 mm	0.2 mm

Table Notes:	According to European Standard EN 50290-2-20
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Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 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
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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
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

Table Notes:	Max. attenuation 10% higher
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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
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Screening

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	100 dB
1000 - 2000 MHz	100 dB
2000 - 3000 MHz	100 dB

Screening Class:	A
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Transfer Impedance

Transfer Impedance
Max. 4.5 mOhm/m

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°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

Standards

CPR Euroclass:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50117-2-1, EN 50117-2-4 and EN 50117-1
RG Type:	6/U Type

Applicable Environmental and Other Programs

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

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
LOI of Jacket:	Min. 35 %
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H126D03.00B100	White	Flat Box	100 m	8719605087478
H126D03.00U250	White	UnReel	250 m	8719605087485
H126D03.00500	White	Reel	500 m	8719605087447
H126D03.005000	White	Reel	5,000 m	8719605087454

History

Update and Revision:	Revision Number: 0.182 Revision Date: 09-30-2020
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