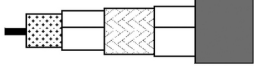


Product: [H126D03](#) 

COAX H126 DUOBONDPLUS LSZH



Product Description

COAX [1.0/4.6] H126 DUOBONDPLUS LSZH

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
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

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	Diameter - Tolerance
LSZH / FRNC	6.9 mm	0.6 mm	0.2 mm

OuterJacket1, Table Note: According to European Standard HD 624

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
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

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

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

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
LOI of Jacket:	Min. 35 %
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
H126D03.00500	White	500 m
H126D03.005000	White	5,000 m
H126D03.009999	White	499 m
H126D03.00B100	White	100 m
H126D03.00U250	White	250 m

History

Update and Revision:	Revision Number: 0.164 Revision Date: 01-31-2020
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