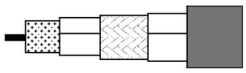
Product: H125D00

COAX H125 DUOBONDPLUS PVC



Product Description

COAX [1.0/4.6] H125 DUOBONDPLUS PVC

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz and 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	0.02 mm	1

Conductor Count:	1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	4.8 mm	0.15 mm

Table Notes:	Gas Injected

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	63%	1 mm			
Braid	2	Tinned Copper (TC)	63%				5%
Tape	3	Bi-Laminate (Alum+Poly)		1 mm	5.6 mm	0.2 mm	

Table Notes:	Foil Tape has L-Fold and is Bonded to sheath

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	7.1 mm	0.2 mm

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

Construction and Dimensions

Min Elongation at Breakof Jacket:	300 %
Min Tensile Strength of Jacket:	10 MPa

Electrical Characteristics

Conductor DCR

Inner Conductor DCR	Max. Conductor Loop	Outer Conductor DCR
23 Ohm/km	37 Ohm/km	14 Ohm/km

Capacitance

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

Impedance

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

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
30-470 MHz	23 dB
470-1000 MHz	20 dB
1000-2000 MHz	18 dB
2000-3000 MHz	16 dB

Table Notes:	Max. 3 peak values 3 dB lower than specified

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
80%	2%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	1.7 dB/100m
50 MHz	4.7 dB/100m
100 MHz	6.2 dB/100m
200 MHz	8.9 dB/100m
400 MHz	12.9 dB/100m
600 MHz	16.0 dB/100m

Table Notes:	Maximum attenuation is 10% higher

Screening

Frequency [MHz]	Min. Screening Attenuation
100-1000 MHz	95

Screening Class:	A

Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30 MHz	max. 5 mOhm/m

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Rating:	-5 °C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	60 N
Min Bend Radius (W/o Pulling Strength):	35 mm
Max Crush Resistance (Load of 700N):	1 %

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1
RG Type:	6/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2015-01-07

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H125D00.01B100	Black	Flat Box	100 m	8719605123268
H125D00.01U250	Black	UnReel	250 m	8719605123275
H125D00.01500	Black	Reel	500 m	8719605123282
H125D00.00B100	White	Flat Box	100 m	8719605087072
H125D00.00250	White	Reel	250 m	8719605087058
H125D00.00U250	White	UnReel	250 m	8719605087089
H125D00.00500	White	Reel	500 m	8719605087065

History

Update and Revision:	Revision Number: 0.132 Revision Date: 09-30-2020