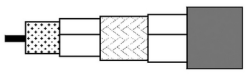
BELDEN
SENDING ALL THE RIGHT SIGNALS

Part Number: H125D00

COAX H125 DUOBONDPLUS PVC



Product Description

COAX [1.0/4.6] H125 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 2150 MHz and the international standard IEC 1196

Physical Characteristics (Overall)

Conductor

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	BC - Bare Copper	1 mm	0.02 mm	1

Conductor Count:	1
Conductor Size:	18 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Gas injected PE - Polyethylene	4.8 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Foil	1	Aluminum/Polyester/Aluminum		1 mm			
Braid	2	TC - Tinned Copper	63 %				5 %
Foil	3	Aluminium / Polyester (L-folded)		1 mm	5.6 mm	0.2 mm	

Note:	Bonded to sheath

Outer Jacket Material

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

OuterJacket1, Table Note:	According the European standard HD 624

Construction and Dimensions

Cabling

Filler
yes

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

Return Loss Table Note:	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

High Freq Table Note:	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 Recommended Pulling 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

EU RoHS Compliance Date (yyyy-mm-dd):	2015-01-07

Part Number

Variants

Item #	Color
H125D00.01500	Black
H125D00.01B100	Black
H125D00.01U250	Black
H125D00.00250	White
H125D00.00500	White
H125D00.00B100	White
H125D00.00U250	White

History

Revision Number:	1