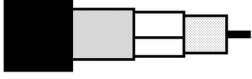


Product: [H125C04](#) 

COAX H125 CU LSZH CATV



Product Description

COAX [1.0/4.8] H125 CU LSZH CATV

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)	4.8 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bare Copper (BC)	100%	2 mm			
Braid	2	Bare Copper (BC)	35%		5.24 mm	0.2 mm	4%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.8 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	41 Ohm/1000ft	18 Ohm/km

Capacitance

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

Min Insulation Resistance:	10000 MOhm*km
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Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance

75 Ohm	3 Ohm	Min. 40 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.4 dB/100m
50 MHz	4.3 dB/100m
100 MHz	6.1 dB/100m
200 MHz	8.6 dB/100m
400 MHz	12.3 dB/100m
600 MHz	15.2 dB/100m
800 MHz	17.7 dB/100m
1000 MHz	19.9 dB/100m
1350 MHz	23.5 dB/100m
1750 MHz	27 dB/100m
2150 MHz	30.2 dB/100m
2400 MHz	32.1 dB/100m

Table Notes: Max. attenuation 10% higher

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
81%	2%

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	23 dB
30 - 470 MHz	23 dB
470 - 1000 MHz	20 dB
1000 - 2000 MHz	18 dB
2000 - 3000 MHz	16 dB

Table Notes: In each frequency band, 3 peak values up to 4 dB lower are allowed

Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	85 dB

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

Max. Pull Tension:	55 N
Min Bend Radius (W/o Pulling Strength):	70 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	7.8-78 N at 25 mm N

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1, EN 50117-9-2 and EN 50290-2-20
RG Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
LOI of Jacket:	Min. 35 %

IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H125C04.00500	Gray	Reel	500 m	8719605087034

History

Update and Revision:	Revision Number: 0.193 Revision Date: 07-12-2021
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