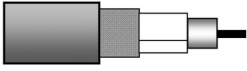


Product: [H124C02](#) 

COAX H124 CU LSZH-C



Product Description

COAX [1.0/4.4] H124 CU LSZH-C

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cable used in cable broadBand communication networks designed according the European Standard EN 50117-1; Operating at frequencies between 5 MHz and 3000 MHz; Installation in London Underground network with requirements on flammability, smoke emission and toxic fume emission; 75 Ohm coaxial data cable suitable for analogue CCTV and serial data applications
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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

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	4.4 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bi-Laminate (Bare Copper+Poly)	100%	2 mm			
Braid	2	Bare Copper (BC)	40%		5 mm	0.2 mm	4%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7 mm	0.2 mm	1 mm

Construction and Dimensions

Min Elongation at Breakof Conductors:	15 %
Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Shield DCR
23 Ohm/km	20 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
53 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	1.3 dB/100m
50 MHz	4.3 dB/100m
100 MHz	6.1 dB/100m
200 MHz	8.8 dB/100m
400 MHz	12.7 dB/100m
600 MHz	15.8 dB/100m
800 MHz	18.5 dB/100m
1000 MHz	20.9 dB/100m
1350 MHz	24.7 dB/100m
1750 MHz	28.6 dB/100m
2150 MHz	32.1 dB/100m
2400 MHz	34.2 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
84%

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
1000 - 2000 MHz	95 dB
2000 - 3000 MHz	95 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

UV Resistance:	Yes
Min Bend Radius (W/o Pulling Strength):	70 mm
Crush Resistance:	Max. 1% (load of 700N) N

Standards

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50117-2-1, EN 50117-1 and EN 50290-2-20
RG Type:	6/U Type
Other Compliance:	London underground standard 1-085: Fire safety performance of materials

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
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EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	LUL 1-085

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H124C02.01500	Black	Reel	500 m	8719605086228

History

Update and Revision:	Revision Number: 0.172 Revision Date: 12-17-2020
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