



**Product:** [H123A02](#) 

COAX H123B AL LSZH CATV

## Product Description

COAX [0.65/2.9] H123B AL LSZH CATV

## Technical Specifications

### Product Overview

Environmental Space:	Indoor
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; The International Standard IEC 1196

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
22	Solid	BC - Bare Copper	0.65 mm	0.015 mm	1

Conductor Count: 1

#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	2.9 mm	0.15 mm

#### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Aluminum/Polyester/Aluminum		1 mm			
Braid	2	TC - Tinned Copper	88 %		3.4 mm	0.15 mm	5 %

#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	4.3 mm	0.2 mm

### Construction and Dimensions

Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	9 MPa

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
55 Ohm/km	72 Ohm/1000ft	17 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	2.7 dB/100m
50 MHz	7.5 dB/100m
100 MHz	10 dB/100m
200 MHz	13.8 dB/100m
400 MHz	19.9 dB/100m
600 MHz	24.8 dB/100m
800 MHz	29 dB/100m
1000 MHz	32.5 dB/100m
1350 MHz	37.3 dB/100m
1600 MHz	40 dB/100m
1750 MHz	42.2 dB/100m
2150 MHz	47 dB/100m
2400 MHz	50.5 dB/100m

#### Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
84 %	2 %

#### High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB
862 - 2150 MHz	16 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
30 - 1000 MHz	80 dB

#### Voltage

Voltage Test Dielectric
2.0 kV DC

#### Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-15°C To +70°C
Operating Temp Range:	-15°C To +70°C

#### Mechanical Characteristics

Bulk Cable Weight:	29 kg/km
Min Bend Radius (W/o Pulling Strength):	25 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	No shrinkback (not according EN 50117) N

#### Standards

ISO/IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	Mini 59/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
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#### Part Number

## Variants

Item #	Color	Length
H123A02.01500	Black	500 m
H123A02.00500	White	500 m
H123A02.009999	White	499 m

## History

Update and Revision:	Revision Number: 0.158 Revision Date: 01-31-2020
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