



**Product:** [H125C03](#)

COAX H125 CU PVC TWIN CATV



## Product Description

COAX [1.0/4.8] H125 CU PVC TWIN CATV

## Technical Specifications

### Product Overview

Environmental Space:	Indoor
Suitable Applications:	Coaxial cables used in cabled distribution networks designed according to 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
18	Solid	BC - Bare Copper	1 mm	0.03 mm	2

Conductor Count: 2

#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	4.8 mm	0.15 mm

#### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper		2 mm			
Braid	2	BC - Bare Copper	34 %		5.24 mm	0.2 mm	4 %

#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	6.8 mm	0.2 mm

OuterJacket1, Table Note: According to European Standard HD 624

### Construction and Dimensions

OuterJacket1, Form:	Shotgun
OuterJacket1, Nominal Width:	14.2 mm
Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 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

## 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	1.4 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

## 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

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	75 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

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

ISO/IEC Compliance:	IEC 1196
GENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	6/U Type

## Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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## Part Number

## Variants

Item #	Color	Length
H125C03.00250	White	250 m

## History

Update and Revision:	Revision Number: 0.156 Revision Date: 01-31-2020
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