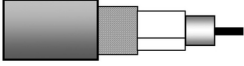


**Part Number: CTF125**

**COAX CTF125 PVC CATV**



**Product Description**

COAX CTF125 PVC CATV

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor - Euroclass Eca
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

**Physical Characteristics (Overall)**

**Conductor**

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	BC - Bare Copper	1.25 mm	0.03 mm	1

Conductor Count:	1
Conductor Size:	16 AWG

**Insulation**

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Foamed low density Polyethylene	5.4 mm	0.15 mm

**Outer Shield Material**

Type	Layer	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper - Polyester				
Braid	2	BC - Bare Copper	50 %	6.2 mm	0.2 mm	5 %

**Outer Jacket Material**

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	7.8 mm	0.2 mm

**Construction and Dimensions**

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
16 Ohm/km	29.5 Ohm/1000ft	13.5 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 or max. 1% dB
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#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.5 dB/100m
50 MHz	3.5 dB/100m
100 MHz	5 dB/100m
200 MHz	7.5 dB/100m
460 MHz	11.5 dB/100m
800 MHz	14.9 dB/100m
860 MHz	15.5 dB/100m
1000 MHz	17 dB/100m
1750 MHz	22.8 dB/100m
2150 MHz	26 dB/100m
2400 MHz	28 dB/100m
3000 MHz	32 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 After Flexing
30 - 1000 MHz	75 dB
1000 - 2000 MHz	65 dB
2000 - 3000 MHz	55 dB

#### Voltage

Voltage Test Dielectric
2.0 kV DC

#### Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

#### Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	40 mm
Adhesion Dielectric:	10-100 N at 25 mm N

#### Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1, EN 50117-2-4 and EN 50290-2-20
RG Type:	7/U Type

#### Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2015-01-26
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#### Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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#### Part Number

## Variants

Item #	Color	Length
CTF125.01100	Black	100 m
CTF125.01500	Black	500 m

## History

Revision Number:	3
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