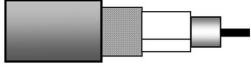


Part Number: CTF167P

COAX CTF167P PE CATV



Product Description

COAX [1.67/7.3] CTF167P PE CATV

Technical Specifications

Product Overview

Environmental Space:	Outdoor
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	1.63 in	0.02 mm	1

Conductor Count:	1
Conductor Size:	14 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Foamed low density Polyethylene	7.28 mm	0.2 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper - Polyester		2 mm			
Braid	2	BC - Bare Copper	50 %		8.1 mm	0.25 mm	3 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LDPE - Low Density Polyethylene	10.1 mm	0.3 mm

Construction and Dimensions

Min Elongation at Breakof Jacket:	300 %
Min Tensile Strength of Jacket:	10 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
8.5 Ohm/km	18.5 Ohm/1000ft	10 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	0.9 dB/100m
50 MHz	2.8 dB/100m
100 MHz	3.9 dB/100m
200 MHz	5.7 dB/100m
460 MHz	9.2 dB/100m
800 MHz	12.2 dB/100m
860 MHz	12.6 dB/100m
1000 MHz	14 dB/100m
1750 MHz	19.2 dB/100m
2150 MHz	21.9 dB/100m
2400 MHz	23.2 dB/100m
3000 MHz	26.1 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 After Flexing
30 - 1000 MHz	75 dB
1000 - 2000 MHz	65 dB
2000 - 3000 MHz	55 dB

Screening Table Note: Flexing with 5 test cycles and 120 mm radius

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):	50 mm
Adhesion Dielectric:	26-260 N at 50 mm N

Standards

CENELEC Compliance:	EN 50117-1, EN 50117-2-4 and EN 50290-2-20
RG Type:	11/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
CTF167P.00100	Black	100 m

History

Update and Revision:

Revision Number: 0.153 Revision Date: 07-11-2019

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