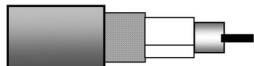


Product: [CTF100](#) 

Broadband Coax, 18 AWG Solid BC, Foil + 50% BC Braid, PVC Jkt



Product Description

Broadband Coax, 18 AWG Solid Bare Copper Conductor, PE Insulation, Copper Foil + 50% Bare Copper Braid Shield, PVC Jacket.

Technical Specifications

Product Overview

Suitable Applications:	Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
18	Solid	BC - Bare Copper	0.96 mm	0.02 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	4.7 mm	0.15 mm

Outer Shield

Type	Layer	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bi-Laminate (Bare Copper+Poly)	100%			
Braid	2	Bare Copper (BC)	55%	5.35 mm	0.15 mm	5%

Outer Jacket

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	6.65 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
26 Ohm/km	41 Ohm/1000ft	15 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
55 pF/m	2 pF/m

Min Insulation Resistance:	10000 MOhm*km
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Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
75 Ohm	3 Ohm	Min. 40 or max. 1% dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.6 dB/100m
50 MHz	4.6 dB/100m
100 MHz	6.5 dB/100m
200 MHz	9.5 dB/100m
460 MHz	15 dB/100m
800 MHz	18.8 dB/100m
860 MHz	19.5 dB/100m
1000 MHz	21.5 dB/100m
1750 MHz	29 dB/100m
2150 MHz	32.5 dB/100m
2400 MHz	34.4 dB/100m
3000 MHz	38.4 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
82%	2%

High Frequency

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 1000 MHz	18 dB
1000 - 2000 MHz	16 dB
2000 - 3000 MHz	15 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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Screening

Frequency [MHz]	Min. Screening Attenuation
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):	35 mm
Adhesion Dielectric:	7.5-75 N at 25 mm N

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1, EN 50117-9-2 and EN 50290-2-20
RG Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color	Put-Up Type	Length	EAN
CTF100.00100	Black	Reel	100 m	8719605047342
CTF100.00250	Black	Reel	250 m	8719605047359
CTF100.00500	Black	Reel	500 m	8719605047366
CTF100.01100	White	Reel	100 m	8719605047373

History

Update and Revision:	Revision Number: 0.188 Revision Date: 12-15-2021
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