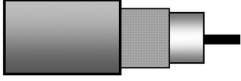


Product: [533945E](#) 

Surveillance and CCTV Applications



Product Description

Surveillance and CCTV Cable, Coax RG6/U, Solid bare copper, gas injected polyethylene, 90% bare copper braid, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cable used in analogue video and CCTV communication networks designed according European Standard EN 50117-1; Operating at frequencies between 5 and 1000 MHz
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
18	Solid	BC - Bare Copper	1.02 mm	0.03 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	4.57 mm	0.15 mm

Outer Shield Material

Type	Material	Coverage [%]	Coverage +/- Tolerance
Braid	Bare Copper (BC)	93%	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	6.76 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

Inner Conductor DCR	Max. Shield DCR
21 Ohm/km	8.86 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.78 dB/100m
5 MHz	1.6 dB/100m
10 MHz	2.36 dB/100m
50 MHz	4.9 dB/100m
100 MHz	6.56 dB/100m
200 MHz	9.5 dB/100m
400 MHz	13.8 dB/100m
700 MHz	18.4 dB/100m
900 MHz	21 dB/100m
1000 MHz	23 dB/100m

Table Notes: Max. attenuation 10% higher

Delay

Nominal Velocity of Propagation (VP) [%]
83%

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	23 dB
30 - 470 MHz	23 dB
470 - 1000 MHz	20 dB

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

Voltage

Voltage Test Dielectric
2.5 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	68 mm
Min Bend Radius During Operation:	31 mm

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2012-08-07

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color	Putup Type	Length	EAN
533945E.00152	Black	Reel	152 m	8719605008374
533945E.00305	Black	Reel	305 m	8719605008381
533945E.001000	Black	Reel	1,000 m	8719605008367

History

Update and Revision:	Revision Number: 0.171 Revision Date: 12-22-2020
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