

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

533945 Coax - Surveillance and CCTV Applications



For more Information
please call

1-800-Belden1



General Description:

Surveillance & CCTV Cable, RG6, Rated-CMG, 18 AWG solid bare copper, foamed polyolefin core, 95% bare copper braid, PVC jacket

Usage (Overall)

Suitable Applications:	Analog Video/CCTV
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Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	1.016

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	6.756 mm
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Mechanical Characteristics (Overall)

UL Temperature Rating:	75°C
Bulk Cable Weight:	53.575 Kg/Km
Max. Recommended Pulling Tension:	306.926 N
Min. Bend Radius/Minor Axis:	69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
NEC Articles:	800
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
PMSHA Specification:	P-07-KA110035-MSHA

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RG Type:	6/U
Series Type:	Series 6

Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only.

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/m)
0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/m)
3.97001

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
20.9984

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
8.859

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.78744
10	2.36232
50	4.9215
100	6.562
200	9.5149
400	13.7802
700	18.3736
900	20.9984
1000	22.967

Max. Operating Voltage - UL:

Voltage
300 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
533945 009U1000	1,000 FT	39.000 LB	WHITE		RG-6/U COAX
533945 0091000	1,000 FT	41.000 LB	WHITE	C	RG-6/U COAX
533945 010U1000	1,000 FT	39.000 LB	BLACK		RG-6/U COAX
533945 0101000	1,000 FT	41.000 LB	BLACK	C	RG-6/U COAX
533945 010500	500 FT	21.000 LB	BLACK	C	RG-6/U COAX

Notes:

C = CRATE REEL PUT-UP.

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