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1-800-Belden1



General Description:

Surveillance & CCTV Cable, RG59, Rated-CMG, 20 AWG solid bare copper, foamed polyolefin core, 93% bare copper braid, PVC jacket

Usage (Overall)

Suitable Applications: Analog Video/CCTV Coax.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.8128

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	3.683

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	93.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 5.893 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	43.158 Kg/Km
Max. Recommended Pulling Tension:	253.547 N
Min. Bend Radius/Minor Axis:	63.500 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

543945 Coax - Surveillance and CCTV Applications

RG Type: 59/U

Series Type: Series 59

Flame Test

UL Flame Test: UL1685 FT4/IEEE 1202 Vertical Tray Flame Test

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

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)

4.036

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.81

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.827

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
5	2.13265
10	2.9529
50	6.2339
100	8.5306
200	11.8116
400	16.405
700	22.967
900	26.248
1000	27.8885

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5.000	2.461
50.000	7.054

Max. Operating Voltage - UL:

Voltage

300 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
543945 009U1000	1,000 FT	31.000 LB	WHITE		RG-59/U COAX
543945 009U500	500 FT	16.000 LB	WHITE		RG-59/U COAX
543945 0091000	1,000 FT	33.000 LB	WHITE	C	RG-59/U COAX
543945 009500	500 FT	16.000 LB	WHITE		RG-59/U COAX
543945 010U1000	1,000 FT	31.000 LB	BLACK		RG-59/U COAX

METRIC MEASUREMENT VERSION

543945 Coax - Surveillance and CCTV Applications

543945 010U500	500 FT	16.000 LB	BLACK		RG-59/U COAX
543945 0101000	1,000 FT	33.000 LB	BLACK	C	RG-59/U COAX
543945 010500	500 FT	16.000 LB	BLACK	C	RG-59/U COAX

Notes:

C = CRATE REEL PUT-UP.

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