

543945 Coax - Surveillance and CCTV Applications

For more Information
please call

1-800-Belden1

**General Description:**

Surveillance & CCTV Cable, RG59, Rated-CMG, 20 AWG solid bare copper, foamed polyolefin core, 90% bare copper braid, PVC jacket

Usage (Overall)

Suitable Applications: Analog Video/CCTV Coax.

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - Bare Copper	.032

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.145

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: 0.232 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	29 lbs/1000 ft.
Max. Recommended Pulling Tension:	57 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.

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

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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
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
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μH/ft)
.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.3

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/ft)
1.230

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.300

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.30
5	.65
10	.90
50	1.90
100	2.60
200	3.60
400	5.00
700	7.00

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900	8.00
1000	8.50

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.750
50.000	2.150

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 009I1000	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
543945 010U500	500 FT	16.000 LB	BLACK		RG-59/U COAX
543945 010I1000	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.

Revision Number: 6 Revision Date: 07-22-2013

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