

For more Information
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1-800-Belden1



General Description:

Surveillance & CCTV Cable, RG59, Plenum-CMP, 20 AWG solid bare copper, foamed FEP core, 95% bare copper braid, Flamarrest® jacket

Usage (Overall)

Suitable Applications: CCTV

Physical Characteristics (Overall)

Conductor

AWG:

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

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	3.429

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 4.877 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 231.306 N

Min. Bend Radius/Minor Axis: 44.450 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

NEC Articles: 800

CEC/C(UL) Specification: CMP

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):	04/01/2005
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:	NFPA 262
C(UL) Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

52.8241

Nominal Velocity of Propagation:

VP (%)

84

Nominal Delay:

Delay (ns/m)

3.97001

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	0.95149
3	1.90298
5	2.2967
8	2.85447
10	3.44505
50	5.9058
100	8.8587
200	12.7959
400	19.3579
700	27.8885
900	32.81

1000	35.1067
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Max. Operating Voltage - UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
643948 010U1000	305 MT	13.608 KG	BLACK		#20 FPFA BRD FLRST
643948 010U500	152 MT	7.258 KG	BLACK		#20 FPFA BRD FLRST
643948 0101000	305 MT	14.515 KG	BLACK	C	#20 FPFA BRD FLRST
643948 877U1000	305 MT	12.701 KG	NATURAL		#20 FPFA BRD FLRST
643948 877U500	152 MT	6.804 KG	NATURAL		#20 FPFA BRD FLRST
643948 8771000	305 MT	13.154 KG	NATURAL	C	#20 FPFA BRD FLRST

Notes:
C = CRATE REEL PUT-UP.

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