Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



643948 Coax - CCTV Applications

For more Information please call

1-800-Belden1



General Description:

EU RoHS Compliance Date (mm/dd/yyyy):

EU Directive 2002/96/EC (WEEE):

EU Directive 2003/11/EC (BFR):

MII Order #39 (China RoHS):

CA Prop 65 (CJ for Wire & Cable):

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. (in.) Solid BC - Bare Copper Insulation Material: Insulation Trade Name Insulation Material FFEP - Foam Fluorinated Ethylene Propylene .135 **Outer Shield** Outer Shield Material: Type Outer Shield Material Coverage (%) Braid BC - Bare Copper **Outer Jacket Outer Jacket Material:** Outer Jacket Trade Name Outer Jacket Material LS PVC - Low Smoke Polyvinyl Chloride **Overall Cable Overall Nominal Diameter:** 0.192 in. **Mechanical Characteristics (Overall)** Operating Temperature Range: -20°C To +75°C **UL Temperature Rating: Bulk Cable Weight:** 30 lbs/1000 ft. Max. Recommended Pulling Tension: 52 lbs Min. Bend Radius/Minor Axis: 1.750 in. **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): EU Directive 2002/95/EC (RoHS): Yes

04/01/2005

Yes

Yes

Yes

Yes

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	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		

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/ft) .097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%) 84

Nominal Delay:

Delay (ns/ft) 1.21

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	0.29
3	0.58
5	0.70
8	0.87
10	1.05
50	1.80
100	2.7
200	3.9
400	5.9
700	8.5
900	10.0
1000	10.7

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	1,000 FT	30.000 LB	BLACK		#20 FFEP BRD FLRST
643948 010U500	500 FT	16.000 LB	BLACK		#20 FFEP BRD FLRST
643948 0101000	1,000 FT	32.000 LB	BLACK	С	#20 FFEP BRD FLRST
643948 877U1000	1,000 FT	28.000 LB	NATURAL		#20 FFEP BRD FLRST
643948 877U500	500 FT	15.000 LB	NATURAL		#20 FFEP BRD FLRST
643948 8771000	1,000 FT	29.000 LB	NATURAL	С	#20 FFEP BRD FLRST

Notes: C = CRATE REEL PUT-UP.

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product. ´ Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

643948 010U1000 643948 010U500 643948 0101000 643948 877U1000 643948 877U500 643948 8771000