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

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 | | |
| Flai | 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) |
|-----------------|
| 75 |

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



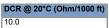
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



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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Revision Number: 2 Revision Date: 08-12-2013

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product. 'Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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