

For more Information
please call

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. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 20 | Solid | BC - Bare Copper | .032 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (in.) |
|-----------------------|--|------------|
| Teflon® | FFEP - Foam Fluorinated Ethylene Propylene | .135 |

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: 0.192 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

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): | 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

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.1

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 | C | #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 | C | #20 FFEP BRD FLRST |

Notes:

C = CRATE REEL PUT-UP.

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