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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 | 90.000 |

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

| | |
|---------------------------------------|------------|
| 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 |
|---------------|----|

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 |

| | |
|------|------|
| 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 0091000 | 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 0101000 | 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: 5 Revision Date: 04-15-2013

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