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1-800-Belden1



## General Description:

Surveillance, CCTV Cable, RG59, Rated-CM, 20 AWG solid bare copper, foamed polyolefin core, 95% bare copper braid, CoreGuard® water resistant tape, PVC jacket, UV resistant

## Usage (Overall)

Suitable Applications:

Low Voltage, CCTV, Sunlight Resistant, Moisture Resistant

## Physical Characteristics (Overall)

### Conductor

AWG:

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

### Insulation

Insulation Material:

| Insulation Material                  | Dia. (mm) |
|--------------------------------------|-----------|
| Gas-injected FPE - Foam Polyethylene | 3.683     |

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Separator Material:

Water resistant tape (over braid, under jacket)

### Overall Cable

Overall Nominal Diameter:

6.198 mm

## Mechanical Characteristics (Overall)

|                                   |                |
|-----------------------------------|----------------|
| Operating Temperature Range:      | -30°C To +75°C |
| UL Temperature Rating:            | 75°C           |
| Bulk Cable Weight:                | 46.134 Kg/Km   |
| Max. Recommended Pulling Tension: | 253.547 N      |
| Min. Bend Radius/Minor Axis:      | 63.500 mm      |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC(UL) Specification:                | CM         |
| NEC Articles:                         | 800        |
| CEC/C(UL) Specification:              | CM         |
| 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): | 04/24/2006 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |

## 5439X5 Coax - Surveillance and CCTV Applications

MII Order #39 (China RoHS): Yes

RG Type: 59/U

Series Type: Series 59

### Flame Test

UL Flame Test: UL1685 UL Loading

C(UL) Flame Test: FT1

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Sunlight Resistance: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Inductance:

Inductance (µH/m)

0.318257

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.4803

#### Nominal Velocity of Propagation:

VP (%)

83

#### 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)

11.4835

#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1 0.9843

5 2.13265

10 2.9529

50 6.2339

100 8.5306

200 11.8116

400 16.405

700 22.967

900 26.248

1000 27.8885

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc    |
|----------------|----------|-------------|-------|-------|--------------|
| 5439X5 0101000 | 1,000 FT | 33.000 LB   | BLACK | C     | RG-59/U COAX |

#### Notes:

C = CRATE REEL PUT-UP.

## 5439X5 Coax - Surveillance and CCTV Applications

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