

## 5439X5 Coax - Surveillance and CCTV Applications



For more Information  
please call

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. (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      | 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: 0.244 in.

### Mechanical Characteristics (Overall)

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -30°C To +75°C  |
| UL Temperature Rating:            | 75°C            |
| Bulk Cable Weight:                | 31 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:               | 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        |

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|                             |     |
|-----------------------------|-----|
| 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/ft) |
|--------------------|

|      |
|------|
| .097 |
|------|

**Nom. Capacitance Conductor to Shield:**

|                     |
|---------------------|
| Capacitance (pF/ft) |
|---------------------|

|      |
|------|
| 16.3 |
|------|

**Nominal Velocity of Propagation:**

|        |
|--------|
| VP (%) |
|--------|

|    |
|----|
| 83 |
|----|

**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) |
|--------------------------|

|     |
|-----|
| 3.5 |
|-----|

**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. 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.

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