

## 5499X5 Composite - Surveillance and CCTV Applications



For more Information  
please call

1-800-Belden1

**Description:**

Coax: 20 AWG solid bare copper conductor, gas-injected foam polyethylene insulation (95% coverage), water resistant tape. Pair: 18 AWG stranded (7x26) bare copper conductor, PVC insulation, water resistant tape, overall PVC jacket.

**Usage (Overall)**

**Suitable Applications:** Siamese, Low Voltage, CCTV, Sunlight Resistant, Moisture Resistant

**Coax****Physical Characteristics****Conductor****AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 20  | Solid     | BC - Bare Copper   | 0.032      |

**Insulation****Insulation Material:**

| Insulation Material                                 | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.145      |

**Separator**

**Outer Jacket Separator Material:** Water resistant tape over braid, under jacket

**Inner Shield****Inner Shield Material:**

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

**Overall Diameter**

**Overall Nominal Diameter:** 0.249 in.

**Applicable Specifications and Agency Compliance**  
**Applicable Standards & Environmental Programs**

**EU CE Mark:** Yes

**Electrical Characteristics****Nom. Characteristic Impedance:**

| Impedance (Ohm) |
|-----------------|
| 75              |

**Nom. Inductance:**

| Inductance (μH/ft) |
|--------------------|
| 0.097              |

**Nom. Capacitance Conductor to Shield:**

| Capacitance (pF/ft) |
|---------------------|
| 16.300              |

**Nominal Velocity of Propagation:**

| VP (%) |
|--------|
| 83.000 |

**Nominal Delay:**

## 5499X5 Composite - Surveillance and CCTV Applications

## Delay (ns/ft)

1.220

## Nom. Conductor DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

10.000

## Nom. Inner Shield DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

3.500

## Nom. Attenuation:

## Freq. (MHz) Attenuation (dB/100 ft.)

|          |       |
|----------|-------|
| 1.000    | 0.300 |
| 5.000    | 0.650 |
| 10.000   | 0.900 |
| 50.000   | 1.900 |
| 100.000  | 2.600 |
| 200.000  | 3.600 |
| 400.000  | 5.000 |
| 700.000  | 7.000 |
| 900.000  | 8.000 |
| 1000.000 | 8.500 |

## Max. Operating Voltage - UL:

300 V RMS

## Twisted Pair

## Physical Characteristics

## Conductor

## AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 1            | 18  | 7x26      | BC - Bare Copper   | 0.046      |

## Insulation

## Insulation Material:

| Insulation Material      | Dia. (in.) |
|--------------------------|------------|
| PVC - Polyvinyl Chloride | 0.066      |

## Twisted Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black and Red |

## Separator

## Separator Material:

Water resistant tape (over pair, under jacket)

## Overall Diameter

## Overall Nominal Diameter:

0.222 in.

## Electrical Characteristics

## Max. Capacitance Conductor to Conductor:

## Capacitance (pF/ft)

30.000

## Physical Characteristics (Overall)

## Conductor

## Outer Shield

## Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

## Outer Jacket

## Outer Jacket Material:

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

**5499X5 Composite - Surveillance and CCTV Applications****Overall Cable**

|                                  |                   |
|----------------------------------|-------------------|
| <b>Overall Nominal Diameter:</b> | 0.249 x 0.506 in. |
|----------------------------------|-------------------|

**Mechanical Characteristics (Overall)**

|   |                 |
|---|-----------------|
| <b>Operating Temperature Range:</b>           | -30°C To +80°C  |
| <b>UL Temperature Rating:</b>                 | 75°C            |
| <b>Bulk Cable Weight:</b>                     | 55 lbs/1000 ft. |
| <b>Max. Recommended Pulling Tension:</b>      | 102 lbs.        |
| <b>Min. Bend Radius (Install)/Minor Axis:</b> | 2.500 in.       |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|  |            |
|--|------------|
| <b>NEC/(UL) Specification:</b>               | CM         |
| <b>NEC/(UL) Rating:</b>                      | 800        |
| <b>CEC/C(UL) Specification:</b>              | CM         |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes        |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes        |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 01/22/2007 |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes        |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes        |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes        |
| <b>MII Order #39 (China RoHS):</b>           | Yes        |

**Flame Test**

|                          |                   |
|--------------------------|-------------------|
| <b>UL Flame Test:</b>    | UL1685 UL Loading |
| <b>C(UL) Flame Test:</b> | FT1               |

**Suitability**

|                               |     |
|-------------------------------|-----|
| <b>Suitability - Indoor:</b>  | Yes |
| <b>Suitability - Outdoor:</b> | Yes |
| <b>Sunlight Resistance:</b>   | Yes |

**Plenum/Non-Plenum**

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                |
|----------------|----------|-------------|-------|-------|--------------------------|
| 5499X5 0101000 | 1,000 FT | 66.000 LB   | BLACK | C     | 1 #18 PR, 1 RG-59/U COAX |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 01-07-2011

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## 5499X5 Composite - Surveillance and CCTV Applications

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