

## 533945 Coax - Surveillance and CCTV Applications

For more Information  
please call

1-800-Belden1



### Description:

18 AWG bare copper conductor, foam polyethylene insulation, bare copper braid shield, sequential footage marking every two feet.

### Usage (Overall)

**Suitable Applications:** Analog Video/CCTV

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 18  | Solid     | BC - Bare Copper   | .040       |

#### Insulation

**Insulation Material:**

| Insulation Material                  | Dia. (in.) |
|--------------------------------------|------------|
| Gas-injected FPE - Foam Polyethylene | .180       |

#### Outer Shield

**Outer Shield Material:**

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper      | 95.000       |

#### Outer Jacket

**Outer Jacket Material:**

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

#### Overall Cabling

**Overall Nominal Diameter:** 0.266 in.

### Mechanical Characteristics (Overall)

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 36 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 69 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 2.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMG

**NEC Articles:** 800

**CEC/C(UL) Specification:** CMG

**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:                          | 6/U      |
| Series Type:                      | Series 6 |

### Flame Test

|                   |                    |
|-------------------|--------------------|
| UL Flame Test:    | UL1685 FT4 Loading |
| 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) |
| 1.21          |

#### Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 6.4                      |

#### Nominal Outer Shield DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 2.700                    |

#### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .24                      |
| 10          | .72                      |
| 50          | 1.5                      |
| 100         | 2.0                      |
| 200         | 2.9                      |
| 400         | 4.2                      |
| 700         | 5.6                      |
| 900         | 6.4                      |
| 1000        | 7.0                      |

#### Max. Operating Voltage - UL:

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc   |
|-----------------|----------|-------------|-------|-------|-------------|
| 533945 009U1000 | 1,000 FT | 44.000 LB   | WHITE |       | RG-6/U COAX |
| 533945 009I1000 | 1,000 FT | 46.000 LB   | WHITE | C     | RG-6/U COAX |
| 533945 010U1000 | 1,000 FT | 44.000 LB   | BLACK |       | RG-6/U COAX |
| 533945 010I1000 | 1,000 FT | 46.000 LB   | BLACK | C     | RG-6/U COAX |
| 533945 010500   | 500 FT   | 24.000 LB   | BLACK | C     | RG-6/U COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)