

## 579945 Composite - CCTV Plus Audio or Powr or Pan and Tilt CCTV Control Applications



For more Information  
please call

1-800-Belden1



### General Description:

PTZ (CCTV+Power/Audio) Cable, Rated-CMG, 1-RG59 25 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-20 AWG stranded bare copper pair with PVC insulation, Siamese with PVC jacket

### Coax

#### Physical Characteristics

##### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 25  | Solid     | BC - Bare Copper   | 0.018      |

##### Insulation

Insulation Material:

| Insulation Material                  | Dia. (in.) |
|--------------------------------------|------------|
| Gas-injected FPE - Foam Polyethylene | 0.085      |

##### Inner Shield

Inner Shield Material:

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

#### Electrical Characteristics

Nom. Characteristic Impedance:

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

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| 0.109              |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 16.900              |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 80.000 |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.270         |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 31.000                   |

Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5.600                    |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000       | 0.450                    |
| 5.000       | 0.900                    |
| 10.000      | 1.300                    |
| 50.000      | 3.000                    |
| 100.000     | 4.100                    |
| 200.000     | 6.000                    |
| 400.000     | 8.600                    |
| 700.000     | 11.600                   |
| 900.000     | 13.500                   |
| 1000.000    | 14.500                   |

## 579945 Composite - CCTV Plus Audio or Powr or Pan and Tilt CCTV Control Applications

## Twisted Pair

## Physical Characteristics

## Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 20  | 7x28      | BC - Bare Copper   | 0.038      |

## Insulation

Insulation Material:

| Insulation Material      | Dia. (in.) |
|--------------------------|------------|
| PVC - Polyvinyl Chloride | 0.056      |

Twisted Pair Color Code Chart:

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

## Inner Shield

Inner Shield Material:

| Inner Shield Material |
|-----------------------|
| Unshielded            |

## Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 26.000              |

## Physical Characteristics (Overall)

## Conductor

## Outer Jacket

Outer Jacket Material:

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

## Overall Cable

Overall Nominal Diameter: 0.151 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 27.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 40.000 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MIL Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: UL1685 UL Loading

## Suitability

Suitability - Indoor: Yes

## Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 679948

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Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 300 V RMS |

Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                   |
|----------------|----------|-------------|-------|-------|-----------------------------|
| 579945 0091000 | 1,000 FT | 29.000 LB   | WHITE |       | 1 #20 PR,1#25 COAX PVC PARA |
| 579945 009500  | 500 FT   | 15.000 LB   | WHITE |       | 1 #20 PR,1#25 COAX PVC PARA |
| 579945 0101000 | 1,000 FT | 29.000 LB   | BLACK | C     | 1 #20 PR,1#25 COAX PVC PARA |

Notes:  
C = CRATE REEL PUT-UP.

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