

## 549945 Composite - CCTV Plus Audio or Power 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 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with polyolefin insulation, Siamese with PVC jacket

### Usage (Overall)

Suitable Applications: CCTV plus Audio, Pan and Tilt CCTV Control

### 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

##### Inner Shield

Inner Shield Material:

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

#### Applicable Specifications and Agency Compliance

##### Applicable Standards & Environmental Programs

EU CE Mark: Yes  
RG Type: 59/U

#### 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:

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

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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:

350 V RMS

### Twisted Pair

#### Physical Characteristics

##### Conductor

AWG:

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

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PP - Polypropylene	0.059

Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

#### Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
22.500

### Physical Characteristics (Overall)

#### Conductor

##### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

##### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.232 x 0.450 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 54 lbs/1000 ft.

Max. Recommended Pulling Tension: 102 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

NEC Articles: 800

CEC/C(UL) Specification: CMG

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): 01/01/2005

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

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

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

MII Order #39 (China RoHS): Yes

### Flame Test

UL Flame Test: UL1685 UL Loading

C(UL) Flame Test: FT4

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 649948

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
549945 0091000	1,000 FT	53.000 LB	WHITE	C	1 #18 PR, 1 RG-59/U COAX
549945 009500	500 FT	28.500 LB	WHITE	C	1#18,1RG-59/U COAX
549945 0101000	1,000 FT	53.000 LB	BLACK	C	1#18,1RG-59/U COAX
549945 010500	500 FT	28.500 LB	BLACK	C	1#18,1RG-59/U COAX

**Notes:**

C = CRATE REEL PUT-UP.

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