

## 539945 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-RG6 18 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	18	Solid	BC - Bare Copper	0.040

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	0.180

##### 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

#### 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)

6.400

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.100

Nom. Attenuation:

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

1.000	0.200
5.000	0.450
10.000	0.640
50.000	1.460

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100.000	2.100
200.000	3.000
400.000	4.300
700.000	5.800
900.000	6.700
1000.000	7.100

Max. Operating Voltage - UL: 300 V RMS

### Twisted Pair

#### Physical Characteristics

##### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7	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

##### Individual Shield

#### Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
21.500

### Physical Characteristics (Overall)

#### Conductor

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Overall Cable

Overall Nominal Diameter: 0.485 in.

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 50 lbs/1000 ft.

Max. Recommended Pulling Tension: 114 lbs.

Min. Bend Radius/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 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 & Cable): Yes

MIL Order #39 (China RoHS): Yes

Other Specification: NEC Article 800

#### Flame Test

UL Flame Test: UL1685 FT4 Loading

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C(UL) Flame Test:	FT4
<b>Suitability</b>	
Suitability - Indoor:	Yes
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	No
Plenum Number:	639948

### Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
539945 0091000	1,000 FT	53.000 LB	WHITE	C	1 #18 PR, 1 RG-6/U COAX
539945 009500	500 FT	27.500 LB	WHITE	C	1 #18 PR, 1 RG-6/U COAX
539945 0101000	1,000 FT	53.000 LB	BLACK	C	1 #18 PR, 1 RG-6/U COAX
539945 010500	500 FT	27.500 LB	BLACK	C	1 #18 PR, 1 RG-6/U COAX

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 05-14-2013

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