

## 539945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications



For more Information  
please call

1-800-Belden1



### Description:

18 AWG bare copper conductor, foam polyolefin insulation, bare copper braid shield, 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:**

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### 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
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: 6 lbs/1000 ft.

Max. Recommended Pulling Tension: 114 lbs.

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

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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NEC/(UL) Specification:	CMG
NEC Articles:	800
CEC/C(UL) Specification:	CMG
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
MII Order #39 (China RoHS):	Yes
Other Specification:	NEC Article 800

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

### Suitability

Suitability - Indoor:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	639948

### Electrical Characteristics (Overall)

#### Max. Operating Voltage - UL:

Voltage
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
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.

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