

## 549945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications

For more Information  
please call

1-800-Belden1



### Description:

20 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	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

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**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
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.

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Min. Bend Radius (Install)/Minor Axis:	2.500 in.
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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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):	01/01/2005
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

#### 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

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
549945 0091000	1,000 FT	49.000 LB	WHITE	C	1 #18 PR, 1 RG-59/U COAX
549945 009500	500 FT	26.500 LB	WHITE	C	1#18,1RG-59/U COAX
549945 0101000	1,000 FT	49.000 LB	BLACK	C	1#18,1RG-59/U COAX
549945 010500	500 FT	26.500 LB	BLACK	C	1#18,1RG-59/U COAX

#### Notes:

C = CRATE REEL PUT-UP.

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