



## 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. (mm)
1	20	Solid	BC - bare Copper	0.813

##### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

##### 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/m)
0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.480

Nominal Velocity of Propagation:

VP (%)
83.000

Nominal Delay:

Delay (ns/m)
4.003

Nom. Conductor DC Resistance:

## METRIC MEASUREMENT VERSION

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## DCR @ 20°C (Ohm/km)

32.810

## Nom. Inner Shield DC Resistance:

## DCR @ 20°C (Ohm/km)

11.484

## Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.984
5.000	2.133
10.000	2.953
50.000	6.234
100.000	8.531
200.000	11.812
400.000	16.405
700.000	22.967
900.000	26.248
1000.000	27.889

## Max. Operating Voltage - UL:

350 V RMS

## Twisted Pair

## Physical Characteristics

## Conductor

## AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7x26	BC - Bare Copper	1.168

## Insulation

## Insulation Material:

Insulation Material	Dia. (mm)
PP - Polypropylene	1.499

## Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

## Electrical Characteristics

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
73.823

## 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:

5.893 x 11.430 mm

## Mechanical Characteristics (Overall)

## Operating Temperature Range:

-30°C To +80°C

## UL Temperature Rating:

75°C

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<b>Bulk Cable Weight:</b>	80.363 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	453.716 N
<b>Min. Bend Radius/Minor Axis:</b>	63.500 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

<b>NEC/(UL) Specification:</b>	CMG
<b>NEC Articles:</b>	800
<b>CEC/C(UL) Specification:</b>	CMG
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

**Flame Test**

<b>UL Flame Test:</b>	UL1685 UL Loading
<b>C(UL) Flame Test:</b>	FT4

**Suitability**

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Suitability - Aerial:</b>	Yes

**Plenum/Non-Plenum**

<b>Plenum (Y/N):</b>	No
<b>Plenum Number:</b>	649948

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
549945 0091000	1,000 FT	53.000 LB	WHITE	C	RG59 + 2C18 CMG SIAM
549945 009500	500 FT	28.500 LB	WHITE	C	RG59 + 2C18 CMG SIAM
549945 0101000	1,000 FT	53.000 LB	BLACK	C	RG59 + 2C18 CMG SIAM
549945 010500	500 FT	28.500 LB	BLACK	C	RG59 + 2C18 CMG SIAM

**Notes:**

C = CRATE REEL PUT-UP.

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