

## 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:

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

## METRIC MEASUREMENT VERSION

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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

Bulk Cable Weight: 80.363 Kg/Km

Max. Recommended Pulling Tension: 453.716 N

Min. Bend Radius/Minor Axis: 63.500 mm

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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	305 MT	24.041 KG	WHITE	C	1 #18 PR, 1 RG-59/U COAX
549945 009500	152 MT	12.927 KG	WHITE	C	1#18,1RG-59/U COAX
549945 0101000	305 MT	24.041 KG	BLACK	C	1#18,1RG-59/U COAX
549945 010500	152 MT	12.927 KG	BLACK	C	1#18,1RG-59/U COAX

#### Notes:

C = CRATE REEL PUT-UP.

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