

## 649948 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, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam FEP, 95% bare copper braid, 1-18 AWG stranded bare copper pair with Flamarrest® insulation, Siamese with Flamarrest® 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.)
FFEP - Foam Fluorinated Ethylene Propylene	0.134

##### Inner Shield

Inner Shield Material:

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95

#### 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)  
16.100

Nominal Velocity of Propagation:

VP (%)  
84.000

Nominal Delay:

Delay (ns/ft)  
1.210

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
10.000

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
2.500

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
5.000	0.700

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10.000	1.000
50.000	2.000
100.000	2.700
200.000	3.900
400.000	5.900
700.000	8.500
900.000	10.000
1000.000	10.700

Max. Operating Voltage - UL: 300 V RMS

### Twisted Pair

#### Physical Characteristics

##### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	BC - Bare Copper	0.047

##### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Flamarrest®	LS PVC-Low Smoke Polyvinyl chloride	0.062

Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

##### Inner Shield

Inner Shield Material:

Inner Shield Material
Unshielded

##### Individual Shield

#### Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
24.000

### Physical Characteristics (Overall)

#### Conductor

##### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

##### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.192 x 0.383 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 44 lbs/1000 ft.

Max. Recommended Pulling Tension: 97 lbs.

Min. Bend Radius/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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

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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:	NFPA 262
C(UL) Flame Test:	FT6

### Suitability

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

Plenum (Y/N):	Yes
Non-Plenum Number:	549945

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
649948 8771000	1,000 FT	48.000 LB	NATURAL	C	PLENUM RG59,1PR18SIAMASE
649948 877500	500 FT	25.500 LB	NATURAL	C	PLENUM RG59,1PR18SIAMASE

**Notes:**

C = CRATE REEL PUT-UP.

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