

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 |
|-----------------------|-----|

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 | RG59 + 2C18 CMP SIAM |
| 649948 877500 | 500 FT | 25.500 LB | NATURAL | C | RG59 + 2C18 CMP SIAM |

Notes:

C = CRATE REEL PUT-UP.

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