

539945 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-RG6 18 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. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 18 | Solid | BC - Bare Copper | 0.040 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | 0.180 |

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

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) |
|--------------------------|
| 6.400 |

Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 3.100 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000 | 0.200 |
| 5.000 | 0.450 |
| 10.000 | 0.640 |
| 50.000 | 1.460 |

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| | |
|----------|-------|
| 100.000 | 2.100 |
| 200.000 | 3.000 |
| 400.000 | 4.300 |
| 700.000 | 5.800 |
| 900.000 | 6.700 |
| 1000.000 | 7.100 |

Max. Operating Voltage - UL: 300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1 | 18 | 7 | 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 |

Individual Shield

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 21.500 |

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Overall Cable

Overall Nominal Diameter: 0.485 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 50 lbs/1000 ft.

Max. Recommended Pulling Tension: 114 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & 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): | 04/01/2005 |
| 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 |
| Other Specification: | NEC Article 800 |

Flame Test

UL Flame Test: UL1685 FT4 Loading

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| | |
|-------------------|-----|
| C(UL) Flame Test: | FT4 |
|-------------------|-----|

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

| | |
|----------------|--------|
| Plenum Number: | 639948 |
|----------------|--------|

Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------|-------|-------------------------|
| 539945 0091000 | 1,000 FT | 53.000 LB | WHITE | C | 1 #18 PR, 1 RG-6/U COAX |
| 539945 009500 | 500 FT | 27.500 LB | WHITE | C | 1 #18 PR, 1 RG-6/U COAX |
| 539945 0101000 | 1,000 FT | 53.000 LB | BLACK | C | 1 #18 PR, 1 RG-6/U COAX |
| 539945 010500 | 500 FT | 27.500 LB | BLACK | C | 1 #18 PR, 1 RG-6/U COAX |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 05-14-2013

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