

501PTZ Composite - For PTZ Cameras: CCTV + Control + Power



For more Information
please call

1-800-Belden1



General Description:

PTZ (CCTV+Control+Power) Cable, Rated-CM, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-22 AWG stranded bare copper pair with polyolefin insulation and Beldfoil® shield, 2-18 AWG stranded bare copper conductors with PVC insulation, Banana Peel with PVC jackets

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.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.145 |

Inner Shield

Inner Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.227 |

Outer Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| Video | Black |

Applicable Specifications and Agency Compliance

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

RG Type: 59/U

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: 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 (%) |
|--------|
| |

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83.000

Nominal Delay:

Delay (ns/ft)

1.220

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.000

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.500

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000 | 0.300 |
| 5.000 | 0.650 |
| 10.000 | 0.900 |
| 50.000 | 1.900 |
| 100.000 | 2.600 |
| 200.000 | 3.600 |
| 400.000 | 5.000 |
| 700.000 | 7.000 |
| 900.000 | 8.000 |
| 1000.000 | 8.500 |

Max. Operating Voltage - UL:

300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1 | 22 | 7x30 | BC - Bare Copper | 0.030 |

Insulation

Insulation Material:

Insulation Material Dia. (in.)

PO - Polyolefin 0.062

Twisted Pair Color Code Chart:

| Number | Color |
|--------|---------------------|
| 1 | Blue and White/Blue |

Individual Shield

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100.000 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22 | 7x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

Outer Jacket Material

PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)

0.177

Outer Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Blue |

Applicable Specifications and Agency Compliance

Applicable Standards & Environmental Programs

NEC/UL Specification: CMR

CEC/C(UL) Specification: CMG

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Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

47.000

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

24.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16.000

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

12.000

Max. Operating Voltage - Other:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.9 Amps per conductor @ 25°C

Multi Conductor

Physical Characteristics

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 2 | 18 | 7x26 | BC - Bare Copper | 0.047 |

Insulation

Insulation Material:

Insulation Material

PP - Polypropylene

Insulation Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Red |
| 2 | Black |

Individual Shield

Outer Jacket

Outer Jacket Diameter:

Nom. Dia. (in.)

0.158

Outer Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | White |

Applicable Specifications and Agency Compliance

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/(UL) Specification: CMG

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

21.500

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.500

Max. Operating Voltage - Other:

Voltage

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300 V RMS

Max. Recommended Current:

Current

5 Amps per conductor @ 25°C

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material

Unjacketed

Overall Cable

Overall Nominal Diameter: 0.419 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -10°C To +75°C

Separation Temperature Range: 0°C To +75°C

Bulk Cable Weight: 60.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 120.000 lbs.

Min. Bend Radius/Minor Axis: 4.200 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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

MIL Order #39 (China RoHS): Yes

Applicable Patents:

Country

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Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 601PTZ

Notes (Overall)

Notes: RG59 CCTV + 1 STP22 AWG Control Grade + 2C 18 AWG CMR. Individually jacketed and color coded components, cabled around and each fused to a central binding spline. Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------|-------|-------------------------------|
| 501PTZ 0001000 | 1,000 FT | 71.000 LB | NONE | C | RG59 +1P22 FS +2C18 CMR BPEEL |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 03-13-2017

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