



For more Information
please call

1-800-Belden1



General Description:

PTZ (CCTV+Control+Power) Cable, Riser-CMR, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with polyolefin insulation and Beldfoil® shield, 2-18 AWG stranded bare copper conductors with polyolefin insulation, Siamese with PVC jacket

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 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Diameter:

| Nom. Dia. (mm) |
|----------------|
| 5.766 |

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/m) |
|-------------------|
| 0.318 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 53.480 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| |

502PTZ Composite - For PTZ Cameras: CCTV + Control + Power

83.000

Nominal Delay:

Delay (ns/m)

4.003

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.810

Nominal Outer 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 |
| 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:

300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 1 | 18 | 19x30 | BC - Bare Copper | 1.118 |

Insulation

Insulation Material:

Insulation Material Dia. (mm)

PO - Polyolefin 2.032

Twisted Pair Color Code Chart:

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

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 |
|-----|-----------|-------------------------------|
| 20 | 7x28 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Diameter:

| Nom. Dia. (mm) |
|----------------|
| 5.563 |

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

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

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Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 144.364 |

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/m) |
|--------------------|
| 85.306 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 21.327 |

Max. Operating Voltage - Other:

| Voltage |
|------------|
| 300 V RMSI |

Max. Recommended Current:

| Description | Current |
|--------------|----------|
| Data/Control | 5.2 Amps |

Multi Conductor

Physical Characteristics

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------------|-----|-----------|--------------------|-----------|
| 2 | 18 | 7x26 | BC - Bare Copper | 1.194 |

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. (mm) |
|----------------|
| 4.013 |

Outer Jacket Color Code Chart:

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

Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/m) |
|--------------------|
| 70.542 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 21.327 |

Max. Operating Voltage - Other:

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

Max. Recommended Current:

| Current |
|-----------------------------|
| 5 Amps per conductor @ 25°C |

502PTZ Composite - For PTZ Cameras: CCTV + Control + Power

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| Unjacketed |

Overall Cable

Overall Nominal Diameter: 11.455 mm

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 110.127 Kg/Km

Max. Recommended Pulling Tension: 622.748 N

Min. Bend Radius/Minor Axis: 114.300 mm

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

MII Order #39 (China RoHS): Yes

Applicable Patents:

| Country |
|------------------|
| www.belden.com/p |

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 602PTZ

Notes (Overall)

Notes: RG59 CCTV + 1 STP18 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 |
|----------------|----------|-------------|-------|-------|-------------------------|
| 502PTZ 0001000 | 1,000 FT | 89.000 LB | NONE | | 1 RG59 + 2C18 SH + 2C18 |
| 502PTZ 000500 | 500 FT | 45.000 LB | NONE | | 1 RG59 + 2C18 SH + 2C18 |

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru