



**Product:** [602PTZ](#) 

PTZ, RG-59 #20, #18-1pr, #18-2c, Shielded, CMP, Siamese

## Product Description

PTZ (CCTV + Control + Power) Cable, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam PFA, 95% bare copper braid, 1-18 AWG stranded bare copper pair with FEP insulation and Beldfoil® shield, 2-18 AWG stranded bare copper conductors with Flamarrest® insulation, Siamese with Flamarrest® jacket

## Technical Specifications

### Product Overview

|                        |                                                |
|------------------------|------------------------------------------------|
| Suitable Applications: | Surveillance, CCTV Camera, PTZ (Pan-Tilt-Zoom) |
|------------------------|------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| Element  | AWG | Stranding | Material         | Nominal Diameter | No. of Conductors | No. of Coax |
|----------|-----|-----------|------------------|------------------|-------------------|-------------|
| Coax(es) | 20  | Solid     | BC - Bare Copper | 0.032 in         |                   | 1           |
| Pair1    | 18  | 19x30     | BC - Bare Copper | 0.044 in         | 2                 |             |
| Pair2    | 18  | 7x26      | BC - Bare Copper | 0.047 in         | 2                 |             |

Conductor Count: 5

#### Insulation

| Element  | Material                                    | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|----------|---------------------------------------------|---------------------|------------------|------------------------|
| Coax(es) | FEP - Fluorinated Ethylene Propylene (Foam) |                     | 0.133 in         |                        |
| Pair1    | FEP - Fluorinated Ethylene Propylene        |                     | 0.059 in         |                        |
| Pair2    | PVC - Polyvinyl Chloride                    | Flamarrest®         |                  | 0.009 in               |

#### Color Chart

| Number    | Color             |
|-----------|-------------------|
| Coax Core | White             |
| Pair1     | Blue & White/Blue |
| Pair2     | Black & Red       |

#### Inner Shield

| Element  | Type      | Material                | Material Trade Name | Coverage [%] |
|----------|-----------|-------------------------|---------------------|--------------|
| Coax(es) | Braid     | Bare Copper (BC)        |                     | 95%          |
| Pair1    | Tape      | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         |
| Pair2    | No Shield |                         |                     |              |

#### Inner Jacket

| Material                 | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|---------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.193 in         | 0.016 in               |
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.150 in         | 0.014 in               |
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.158 in         | 0.015 in               |

#### Outer Shield

| Drainwire AWG | Drainwire Construction n x D |
|---------------|------------------------------|
| 20            | 19x32                        |

#### Outer Jacket

| Material                        | Nominal Diameter |
|---------------------------------|------------------|
| Banana Peel (No Overall Jacket) | 0.363 in         |
|                                 | 0.15 in          |
|                                 | 0.158 in         |
| No Jacket                       | 0.363 in         |

Electrical Characteristics

Conductor DCR

| Element  | Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Inner Shield DCR | Nominal Outer Shield DCR |
|----------|-----------------------|--------------------------------------------|--------------------------|--------------------------|
| Coax(es) | 10 Ohm/1000ft         | 10 Ohm/1000ft                              | 2.5 Ohm/1000ft           |                          |
| Pair1    | 5.5 Ohm/1000ft        | 5.5 Ohm/1000ft                             | 7.3 Ohm/1000ft           | 7.3 Ohm/1000ft           |
| Pair2    | 6.5 Ohm/1000ft        | 6.5 Ohm/1000ft                             |                          |                          |

Capacitance

| Element  | Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Shield |
|----------|-----------------------------------------|--------------------------------------|
| Coax(es) |                                         | 16.1 pF/ft                           |
| Pair1    | 51 pF/ft                                | 97 pF/ft                             |
| Pair2    | 30 pF/ft                                |                                      |

Impedance

| Element  | Nominal Characteristic Impedance |
|----------|----------------------------------|
| Coax(es) | 75 Ohm                           |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | .29 dB/100ft        |
| 5 MHz           | 0.7 dB/100ft        |
| 10 MHz          | 1.1 dB/100ft        |
| 50 MHz          | 1.8 dB/100ft        |
| 100 MHz         | 2.7 dB/100ft        |
| 200 MHz         | 3.9 dB/100ft        |
| 400 MHz         | 5.9 dB/100ft        |
| 700 MHz         | 8.5 dB/100ft        |
| 900 MHz         | 10 dB/100ft         |
| 1000 MHz        | 10.7 dB/100ft       |

Delay

| Element  | Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|----------|-----------------|---------------|------------------------------------------|
| Coax(es) | 84 ns/100m      | 1.21 ns/ft    | 84%                                      |

Current

| Element  | Max. Recommended Current [A]   |
|----------|--------------------------------|
| Coax(es) |                                |
| Pair1    | 5.2 Amps per Conductor at 25°C |
| Pair2    | 5 Amps per Conductor at 25°C   |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | 0°C To +75°C   |
| UL Temperature Rating:          | 75°C           |
| Operating Temperature Range:    | -10°C To +75°C |
| Separation Temp Range:          | 0°C To +75°C   |

Mechanical Characteristics

|                                      |               |
|--------------------------------------|---------------|
| Bulk Cable Weight:                   | 65 lbs/1000ft |
| Maximum Recommended Pulling Tension: | 162 lbs       |

Standards

|                      |                     |
|----------------------|---------------------|
| NEC Articles:        | Article 800         |
| NEC/(UL) Compliance: | CMP                 |
| CPR Euroclass:       | Eca                 |
| RG Type:             | 59                  |
| Other Specification: | Video coax: RG 59/U |

Applicable Environmental and Other Programs

|                                              |                 |
|----------------------------------------------|-----------------|
| Environmental Space:                         | Indoor - Plenum |
| EU Directive 2000/53/EC (ELV):               | Yes             |
| EU Directive 2003/11/EC (BFR):               | Yes             |
| EU Directive 2011/65/EU (RoHS 2):            | Yes             |
| EU Directive 2012/19/EU (WEEE):              | Yes             |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes             |
| EU Directive Compliance:                     | Yes             |
| EU CE Mark:                                  | Yes             |
| MII Order #39 (China RoHS):                  | Yes             |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | NFPA 262  |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Related Part Numbers

|                    |        |
|--------------------|--------|
| Non-Plenum Number: | 502PTZ |
|--------------------|--------|

Variants

| Item #         | Color              | UPC          |
|----------------|--------------------|--------------|
| 602PTZ 0001000 | Black, Blue, White | 612825172062 |
| 602PTZ 000500  | Black, Blue, White | 612825172079 |

|           |                                                                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Footnote: | C - CRATE REEL PUT-UP.                                                                                                                                                     |
| Patent:   | This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> . |

Product Notes

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | RG59 CCTV + 1 STP 18 AWG Control Grade + 2C 18 AWG CMP. 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. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.430 Revision Date: 02-20-2026 |
|----------------------|--------------------------------------------------|

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