



Product: <u>649948</u> ☑

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

Product 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

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 | | | 1 |
| Pair1 | 18 | 7x26 | BC - Bare Copper | 0.047 in | 2 | |
| Conductor Count: | | | | | 3 | |

Insulation

| Element | Material | Nominal Diameter |
|------------|--------------------------|------------------|
| Coax(es) | PE - Polyethylene (Foam) | 0.133 in |
| Pair1 | PVC - Polyvinyl Chloride | 0.062 in |
| Insulation | Table Notes: | |

Color Chart

| Number | Color |
|-----------|-------------|
| Coax Core | White |
| Pair1 | Black & Red |

Inner Shield

| Element | Type | Material | Coverage [%] |
|----------|-------|------------------|--------------|
| Coax(es) | Braid | Bare Copper (BC) | 95% |
| Pair1 | | No Shield | |

Inner Jacket

| Nominal Diameter |
|------------------|
| 0.192 in |

Outer Jacket

| Material | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|---------------------|
| PVC - Polyvinyl Chloride | Flamarrest® | 0.192 in x 0.383 in |

Electrical Characteristics

Conductor DCR

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

Capacitance

| Element | Nom. Capacitance Conductor to Conductor |
|----------|---|
| Coax(es) | 16.1 pF/ft |
| Pair1 | |

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 |
|----------|-----------------|---------------|
| Coax(es) | 84 ns/100m | 1.21 ns/ft |

Current



Temperature Range

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

Mechanical Characteristics

| Bulk Cable Weight: | 45 lbs/1000ft |
|--------------------------------------|---------------|
| Maximum Recommended Pulling Tension: | 75 lbs |

Standards

| NEC Articles: | Article 800 |
|-----------------------|-------------|
| NEC/(UL) Compliance: | CMP |
| CEC/C(UL) Compliance: | CMP |
| CPR Euroclass: | Eca |
| RG Type: | 59 |

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 - Burial: | No |
|------------------------------------|-----|
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |

Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Related Part Numbers

| Non-Plenum Number: | 549945 |
|--------------------|--------|

Variants

| | Item # | Color | Put-Up Type | Length | UPC |
|---|----------------|---------|-------------|----------|--------------|
| ľ | 649948 877500 | Natural | Reel | 500 ft | 612825177074 |
| | 649948 8771000 | Natural | Reel | 1,000 ft | 612825177067 |

C - CRATE REEL PUT-UP. Footnote:

Product Notes

| Notes: | 18 AWG pair is unshielded |
|--------|---------------------------|

History

| Update and Revision: | Revision Number: 0.527 Revision Date: 02-03-2025 |
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