



Product: [539945](#)

PTZ, RG-6 #18, #18-2c, CMG, Siamese

Product Description

PTZ (CCTV + Power/Audio) Cable, Rated-CMG, 1-RG6 18 AWG solid bare copper with foam polyethylene 90% bare copper braid, 1-18 AWG stranded bare copper pair with polypropylene insulation, Siamese with PVC 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) | 18 | Solid | BC - Bare Copper | | | 1 |
| Pair1 | 18 | 7x26 | BC - Bare Copper | 0.046 in | 2 | |

| | |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

Insulation

| Element | Material | Nominal Diameter |
|----------|--------------------------|------------------|
| Coax(es) | PE - Polyethylene (Foam) | 0.180 in |
| Pair1 | PP - Polypropylene | 0.059 in |

| | |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

Color Chart

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

Inner Shield Material

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

Inner Jacket Material

| Nominal Diameter |
|------------------|
| 0.267 in |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.267 in x 0.485 in |

Construction and Dimensions

| | |
|------------------------------|-----------|
| OuterJacket1, Nominal Width: | 0.0236 in |
|------------------------------|-----------|

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Inner Shield DCR |
|----------|-----------------------|--|--------------------------|
| Coax(es) | 6.4 Ohm/1000ft | 6.4 Ohm/1000ft | 3.1 Ohm/1000ft |
| Pair1 | 6.4 Ohm/1000ft | | |

Capacitance

| Element | Nom. Capacitance Conductor to Conductor |
|---------|---|
| Coax | 16.3 pF/ft |
| Pair1 | |

Impedance

| Element | Nominal Characteristic Impedance |
|---------|----------------------------------|
| Coax | 75 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.2 dB/100ft |
| 5 MHz | 0.45 dB/100ft |
| 10 MHz | 0.64 dB/100ft |
| 50 MHz | 1.46 dB/100ft |
| 100 MHz | 2.1 dB/100ft |
| 200 MHz | 3 dB/100ft |
| 400 MHz | 4.3 dB/100ft |
| 700 MHz | 5.8 dB/100ft |
| 900 MHz | 6.7 dB/100ft |
| 1000 MHz | 7.1 dB/100ft |

Delay

| Element | Max. Delay Skew | Nominal Delay |
|---------|-----------------|---------------|
| Coax | 83 ns/100m | 1.22 ns/ft |

Current

| Element | Max. Recommended Current [A] |
|---------|------------------------------|
| Coax | 5 Amps per Conductor |
| Pair1 | |

Temperature Range

| | |
|--------------------------|---------------|
| Installation Temp Range: | 0°C To +75°C |
| UL Temp Rating: | 75°C |
| Operating Temp Range: | -30°C To 75°C |
| Separation Temp Range: | 0°C To +75°C |

Mechanical Characteristics

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 50 lbs/1000ft |
| Max. Pull Tension: | 89 lbs |

Standards

| | |
|-----------------------|-------------|
| NEC Articles: | Article 800 |
| NEC/(UL) Compliance: | CMG |
| CEC/C(UL) Compliance: | CMG |
| RG Type: | 6/U Type |

Applicable Environmental and Other Programs

| | |
|------------------------------------|------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | Yes |
| EU CE Mark: | Yes |

| | |
|---------------------------------------|------------|
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|--|
| Suitability - Aerial: | Yes - Black only, when supported by messenger wire |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black only |
| Suitability - Sunlight Resistance: | Yes - Black only |

Flammability, LS0H, Toxicity Testing

| | |
|---------------------|--------------------|
| C(UL) Flammability: | FT4 |
| UL Flammability: | UL1685 FT4 Loading |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|----------------|--------|
| Plenum (Y/N): | No |
| Plenum Number: | 639948 |

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|-------|------------|----------|--------------|
| 539945 010500 | Black | Reel | 500 ft | 612825161882 |
| 539945 0101000 | Black | Reel | 1,000 ft | 612825161875 |
| 539945 009500 | White | Reel | 500 ft | 612825161868 |
| 539945 0091000 | White | Reel | 1,000 ft | 612825161851 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

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

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|----------------------|--|
| Update and Revision: | Revision Number: 0.392 Revision Date: 09-30-2020 |
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