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Part Number: 2505PTZ

PTZ, RG-59 #20, #18-1pr, #16-2c, Shielded, CM, Siamese

Product Description

PTZ (CCTV + Control + Power) Cable, Rated-CM, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with PVC insulation and Beldfoil® shield, 2-16 AWG stranded bare copper conductors with PVC insulation, Siamese with PVC jacket, Aluminum interlocking armor

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | Nominal Diameter | No. of Conductors | No. of Pairs | No. of Coax |
|------------------|-----|-----------|------------------|------------------|-------------------|--------------|-------------|
| Coax | 20 | Solid | BC - Bare Copper | 0.032 in | 1 | | 1 |
| Shielded Pair | 18 | 7x26 | BC - Bare Copper | | | 1 | |
| Power conductors | 16 | 19x29 | BC - Bare Copper | | 2 | | |

| | |
|------------------|--------|
| Conductor Count: | 5 |
| Conductor Size: | 20 AWG |

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|---|------------------|------------------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.145 in | |
| PP - Polypropylene | | 0.008 in |
| PP - Polypropylene | | 0.008 in |

Color Chart

| Number | Color |
|-----------------------|---------------|
| Coax core | Natural |
| Shielded pair | Red and Black |
| Power conductors | Red and Black |
| Coax jacket | Black |
| Shielded ppair jacket | Blue |
| Power jacket | White |

Color Chart 4

| Number | Color |
|--------|-------|
| 1 | Black |
| 1 | Gray |
| 1 | White |

Inner Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire AWG | Drainwire Construction n x D |
|------------|------------------------------|------------------------------|--------------|---------------|------------------------------|
| Braid | BC - Bare Copper | | 93.0 % | 24 | 7x32 |
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® with shorting fold | 100.0 % | | |
| Unshielded | | | | | |

Outer Shield Material

| Drainwire Construction n x D |
|------------------------------|
| 7x28 mm |

| | |
|-------|-----------|
| Note: | Polyester |
|-------|-----------|

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.165 in |
| PVC - Polyvinyl Chloride | 0.496 in |
| Unjacketed | |

Construction and Dimensions

Armor

| Type of Armor | Material | Diameter over Armoring |
|---------------|----------|------------------------|
| Interlocked | Aluminum | 0.633 in |

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Inner Shield DCR |
|------------------|-----------------------|--|--------------------------|
| Coax | 10 Ohm/1000ft | 10 Ohm/1000ft | 3.5 Ohm/1000ft |
| Shielded pair | 6.5 Ohm/1000ft | 4.2 Ohm/1000ft | |
| Power Conductors | 4.2 Ohm/1000ft | | |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield | Nom. Capacitance Conductor to Shield |
|---|---|--------------------------------------|
| | | 16.3 pF/ft |
| 53 pF/ft | 95.5 pF/ft | |
| Shielding: | | Multiple or Specialty |

Inductance

| Nominal Inductance |
|--------------------|
| 0.097 μ H/ft |
| 0.145 μ H/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.3 dB/100ft |
| 5 MHz | 0.65 dB/100ft |
| 10 MHz | 0.9 dB/100ft |
| 50 MHz | 1.9 dB/100ft |
| 100 MHz | 2.6 dB/100ft |
| 200 MHz | 3.6 dB/100ft |
| 400 MHz | 5 dB/100ft |
| 700 MHz | 7 dB/100ft |
| 900 MHz | 8 dB/100ft |
| 1000 MHz | 8.5 dB/100ft |

Delay

| Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|--|
| 83 ns/100m | 1.22 ns/ft | 83 % |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 5 Amps per conductor @ 25°C |
| Per conductor @ 25°C: 5 A |

Voltage

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

Temperature Range

| | |
|-----------------------|----------------|
| Operating Temp Range: | -10°C To +75°C |
|-----------------------|----------------|

| | |
|------------------------|--------------|
| Separation Temp Range: | 0°C To +75°C |
|------------------------|--------------|

Mechanical Characteristics

| | |
|----------------------------------|----------------|
| Bulk Cable Weight: | 142 lbs/1000ft |
| Max Recommended Pulling Tension: | 210 lbs |
| Min Bend Radius/Minor Axis: | 9.5 in |

Standards

| | |
|--------------------------|---------------|
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CMG |
| CEC/C(UL) Specification: | CMG |
| RG Type: | 59/U Type |
| RG / Series Type: | 59/U Type |
| Other Standards: | Coax: RG 59/U |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|------------|
| 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): | 2007-06-08 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|---------------------------------|
| UL Flammability: | UL1685 Vertical Tray Flame Test |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Footnote |
|-----------------|-------|----------|
| 2505PTZ 0001000 | Black | C |

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

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