



Product: [5284US](#)

PTZ, #24-2pr, #16-2c, CMR, Siamese

Product Description

PTZ (Control + Power) Cable, Riser-CMR, 2-24 AWG solid bare copper pairs with polyolefin insulation, 2-16 AWG stranded bare copper conductors with PVC insulation, Siamese PVC jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Surveillance, CCTV Camera, PTZ (Pan-Tilt-Zoom), UTP-CCTV |
| Patent: | This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents . |

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors | No. of Pairs |
|-------------|-----|-----------|------------------|-------------------|--------------|
| Cat 5e Pair | 24 | Solid | BC - Bare Copper | 2 | |
| Pair1 | 16 | 19x29 | BC - Bare Copper | 2 | |

| | |
|------------------------|---|
| Conductor Count: | 6 |
| Total Number of Pairs: | 3 |

Insulation

| Element | Material | Nominal Diameter |
|-------------|-----------------|------------------|
| Cat 5e Pair | PO - Polyolefin | 0.035 in |
| Pair1 | PO - Polyolefin | |

Color Chart

| Number | Color |
|--------------|-------------------------|
| Cat 5e Pair1 | Blue and White/Blue |
| Cat 5e Pair2 | Orange and White/Orange |
| Pair1 | Black & Red |

Inner Shield

| Element | Material |
|-------------|-----------|
| Cat 5e Pair | No Shield |
| Pair1 | No Shield |

Outer Jacket

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.190 x 0.408 in |

Electrical Characteristics

Conductor DCR

| Element | Max. Conductor DCR | Max. DCR Unbalance |
|-------------|--------------------|--------------------|
| Cat 5e Pair | 28.5902 Ohm/1000ft | 5 % |
| Pair1 | 45 Ohm/km | |

Capacitance

Element

Cat 5e Pair

Pair1

Delay

| Element | Max. Delay | Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-------------|------------|-----------------|--|
| Cat 5e Pair | 45 ns/ft | 70 ns/100m | 70% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. PSNEXT [dB] | Min. PSACR [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Max./Min. Fitted Impedance |
|-----------------|-----------------------------------|------------------|-----------------|-----------------------------|----------------------------|----------------------------|
| 1 MHz | 2 dB/100m | 62 dB | 60 dB | 61 dB | 20 dB | 100 ± 15% |
| 4 MHz | 4.1 dB/100m | 53 dB | 49 dB | 49 dB | 23 dB | 100 ± 15% |
| 8 MHz | 5.8 dB/100m | 48 dB | 43 dB | 43 dB | 24.5 dB | 100 ± 15% |
| 10 MHz | 6.5 dB/100m | 47 dB | 41 dB | 41 dB | 25 dB | 100 ± 15% |
| 16 MHz | 8.2 dB/100m | 44 dB | 36 dB | 37 dB | 25 dB | 100 ± 15% |
| 20 MHz | 9.3 dB/100m | 42 dB | 34 dB | 35 dB | 25 dB | 100 ± 15% |
| 25 MHz | 10.4 dB/100m | 41 dB | 31 dB | 33 dB | 24.3 dB | 100 ± 15% |
| 31.25 MHz | 11.7 dB/100m | 39 dB | 28 dB | 31 dB | 23.6 dB | 100 ± 15% |
| 62.5 MHz | 17 dB/100m | 35 dB | 19 dB | 24 dB | 21.5 dB | 100 ± 15% |
| 100 MHz | 22 dB/100m | 32 dB | 11 dB | 21 dB | 20.1 dB | 100 ± 15% |

Current**Element**

Cat 5e Pair

Pair1

Voltage**UL Voltage Rating**

300 V RMS

Electrical Characteristics Notes: Maximum DCR Unbalance for Pair @ 20°C: 5%

Temperature Range

| | |
|---------------------------------|----------------|
| Installation Temperature Range: | 0°C To +75°C |
| UL Temperature Rating: | 75°C |
| Operating Temperature Range: | -20°C To +75°C |
| Separation Temp Range: | 0°C To +75°C |

Mechanical Characteristics

| | |
|--------------------------------------|---------------|
| Bulk Cable Weight: | 43 lbs/1000ft |
| Maximum Recommended Pulling Tension: | 100 lbs |

Standards

| | |
|---------------------------------------|---|
| NEC Articles: | Article 800 |
| NEC/(UL) Compliance: | CMR |
| CEC/C(UL) Compliance: | CMG |
| ISO/IEC Compliance: | ISO/IEC 11801, Category 5e for data pairs |
| CPR Euroclass: | Eca |
| Third Party Performance Verification: | Category 5e |

Applicable Environmental and Other Programs

| | |
|--|----------------|
| Environmental Space: | Indoor - Riser |
| 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

| | |
|-------------------------|--------------|
| CSA/C(UL) Flammability: | FT4 |
| UL Flammability: | UL1666 Riser |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|----------------|--------|
| Plenum (Y/N): | No |
| Plenum Number: | 6284US |

Related Part Numbers

Variants

| Item # | Color | UPC |
|----------------|-------|--------------|
| 5284US 0101000 | Black | 612825158875 |
| 5284US 010500 | Black | 612825158882 |
| 5284US 0091000 | White | 612825158868 |

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

Product Notes

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|--------|-------------------------------------|
| Notes: | Overall jacket sequentially marked. |
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History

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| Update and Revision: | Revision Number: 0.418 Revision Date: 08-25-2025 |
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