




Product: [5284UE](#) 

PTZ, #23-2pr, #16-2c, CMR

Product Description

PTZ (Control + Power) Cable, Riser-CMR, 2-23 AWG solid bare copper pairs with polyolefin insulation, 2-16 AWG stranded bare copper conductors with polyolefin insulation, 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/resources/patents . |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|------------------|-------------------|--------------|
| 23 | Solid | BC - Bare Copper | 0.023 in | | 2 |
| 16 | 19x29 | TC - Tinned Copper | 0.059 in | 2 | |

| | |
|------------------------|---|
| Conductor Count: | 6 |
| Total Number of Pairs: | 2 |

Insulation

| Material | Nominal Diameter |
|------------|------------------|
| Polyolefin | 0.04 in |
| Polyolefin | 0.077 in |

Color Chart

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

Inner Shield Material

| Material |
|-----------|
| No Shield |
| No Shield |

Outer Shield Material

| Material |
|-----------|
| No Shield |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.233 in | 0.019 in |

Electrical Characteristics

Conductor DCR

| Element | Max. Conductor DCR | Max. DCR Unbalance | Nominal Conductor DCR |
|-------------|--------------------|--------------------|-----------------------|
| Cat 5e Pair | 27.432 Ohm/1000ft | 5 % | 90 Ohm/km |
| | 14.7 Ohm/km | | 14.7 Ohm/km |

Capacitance

| Element | Max. Capacitance Unbalance | Nom. Capacitance Conductor to Conductor |
|-------------|----------------------------|-----------------------------------------|
| Cat 5e Pair | 330 pF/ft | 15 pF/ft |
| Pair1 | | |

Delay

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

High Freq

| 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: | Max. Capacitance Unbalance for Pair: 330 pf/ft |
| Other Electrical Characteristic 2: | Maximum DCR Unbalance for Pair @ 20°C: 5% |

Temperature Range

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

Mechanical Characteristics

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 32 lbs/1000ft |
| Max. Pull Tension: | 105 lbs |

Standards

| | |
|-----------------------|------------------------------------------|
| NEC Articles: | Article 800 |
| NEC/(UL) Compliance: | CMR |
| CEC/C(UL) Compliance: | CMG |
| IEC Compliance: | ISO/IEC 11801, Category 5e for data pair |
| Other Compliance: | ISO/IEC 11801, 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 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 - Indoor: | Yes |
|-----------------------|-----|

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | UPC |
|----------------|-------|--------------|
| 5284UE 0101000 | Black | 612825158851 |
| 5284UE 0091000 | White | 612825158837 |
| 5284UE 009500 | White | 612825158844 |

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

Product Notes

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

History

| | |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.254 Revision Date: 07-09-2020 |
|----------------------|--------------------------------------------------|

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