

Part Number: 6284US

PTZ, #23-2pr, #16-2c, CMP, Siamese



Product Description

PTZ (Control + Power) Cable, Plenum-CMP, 2-24 AWG solid bare copper pairs with FEP insulation, 2-16 AWG stranded bare copper conductors with Flamarrest® insulation, Siamese Flamarrest® jacket

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | Nominal Diameter | No. of Conductors | No. of Pairs |
|---------|-----|-----------|--------------------|------------------|-------------------|--------------|
| Data | 24 | Solid | BC - Bare Copper | 0.021 in | | 2 |
| Power | 16 | 19x29 | TC - Tinned Copper | 0.059 in | 2 | |

| | |
|------------------------|--------|
| Conductor Count: | 2 |
| Total Number of Pairs: | 2 |
| Conductor Size: | 24 AWG |

Insulation

| Material | Nominal Diameter |
|---------------------------------------|------------------|
| FEP - Fluorinated Ethylene Propylene | 0.035 in |
| LS PVC - Low Smoke Polyvinyl Chloride | 0.077 in |

Color Chart

| Number | Color |
|-------------|-------------------------|
| Pair 1 | Blue and White/Blue |
| Pair 2 | Orange and White/Orange |
| Conductor 1 | Red |
| Conductor 2 | Black |

Inner Shield Material

| Material |
|------------|
| Unshielded |

Outer Shield Material

| Material |
|------------|
| Unshielded |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------------------|---------------------|------------------|------------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flamarrest® | 0.183 x 0.368 in | 0.016 in |

Electrical Characteristics

Conductor DCR

| Element | Max. Conductor DCR | Max. DCR Unbalance | Nominal Conductor DCR |
|---------|--------------------|--------------------|-----------------------|
| Data | 93.8 Ohm/km | 5 % | 93.8 Ohm/km |
| Power | 45 Ohm/km | | 14.8 Ohm/km |

| | |
|------------|------------|
| Shielding: | Unshielded |
|------------|------------|

High Frequency (Nominal/Typical)

| Frequency [MHz] |
|-----------------|
| 1 MHz |
| 4 MHz |
| 8 MHz |
| 10 MHz |
| 16 MHz |
| 20 MHz |
| 25 MHz |
| 31.25 MHz |
| 62.5 MHz |
| 100 MHz |

Delay

| Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|--|
| 70 ns/100m | 70 % |

High Freq

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

Voltage

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

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

Temperature Range

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

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 45 lbs/1000ft |
| Max Recommended Pulling Tension: | 100 lbs |
| Min Bend Radius/Minor Axis: | 1.7 in |

Standards

| | |
|--------------------------|--|
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| ISO/IEC Compliance: | ISO/IEC 11801, Category 5e for data pair |
| Other Standards: | ISO/IEC 11801, Category 5e |

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): | 2006-04-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Flammability, LS0H, Toxicity Testing

| | |
|---------------------|-----------|
| C(UL) Flammability: | FT6 |
| UL Flammability: | NFPA 262 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

| | |
|--------------------|--------|
| Non-Plenum Number: | 5284US |
|--------------------|--------|

Variants

| Item # | Color | Footnote |
|----------------|-------|----------|
| 6284US 010500 | Black | C |
| 6284US 0091000 | White | C |
| 6284US 009500 | White | C |

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