

## 6284US Composite - CCTV and PTZ Applications



For more Information  
please call

1-800-Belden1



### General 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

### Usage (Overall)

Suitable Applications:

UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television

### Twisted Pair

#### Physical Characteristics

##### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 2       | 24  | Solid     | BC - Bare Copper   | 0.021      |

##### Insulation

Insulation Material:

| Insulation Material                  | Dia. (in.) |
|--------------------------------------|------------|
| FEP - Fluorinated Ethylene Propylene | 0.035      |

Twisted Pair Color Code Chart:

| Number | Color                   |
|--------|-------------------------|
| 1      | Blue and White/Blue     |
| 2      | Orange and White/Orange |

##### Inner Shield

Inner Shield Material:

| Inner Shield Material |
|-----------------------|
| Unshielded            |

##### Individual Shield

#### Electrical Characteristics

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 70.000 |

Maximum Conductor DC Resistance:

| DCR @ 20°C (Ohm/100 m) |
|------------------------|
| 9.380                  |

Maximum DCR Unbalanced:

| DCR Unbalance @ 20°C (%) |
|--------------------------|
| 5.000                    |

Premise Cable Electricals:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. PSNEXT (dB) | Fitted Imp. (Ohms) |
|-------------|-----------------------------|------------------|--------------------|
| 1.0         | 2.000                       | 62               | 100 ± 15%          |
| 4.0         | 4.100                       | 53               | 100 ± 15%          |
| 8.0         | 5.800                       | 48               | 100 ± 15%          |
| 10.0        | 6.500                       | 47               | 100 ± 15%          |
| 16.0        | 8.200                       | 44               | 100 ± 15%          |
| 20.0        | 9.300                       | 42               | 100 ± 15%          |
| 25.0        | 10.400                      | 41               | 100 ± 15%          |
| 31.25       | 11.700                      | 39               | 100 ± 15%          |
| 62.5        | 17.000                      | 35               | 100 ± 15%          |
| 100         | 22.000                      | 32               | 100 ± 15%          |

Premise Cable Electrical Table 1:

| Freq. (MHz) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------|-------------|
| 1           | 60              | 20.000      |
| 4           | 49              | 23.000      |
| 8           | 43              | 24.500      |
| 10          | 41              | 25.000      |

|       |    |        |
|-------|----|--------|
| 16    | 36 | 25.000 |
| 20    | 34 | 25.000 |
| 25    | 31 | 24.300 |
| 31.25 | 28 | 23.600 |
| 62.5  | 19 | 21.500 |
| 100   | 11 | 20.100 |

**Multi Conductor****Physical Characteristics****Conductor**

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 2            | 16  | 19x29     | TC - Tinned Copper | 0.059      |

**Insulation**

Insulation Material:

| Insulation Trade Name | Insulation Material                   | Dia. (in.) |
|-----------------------|---------------------------------------|------------|
| Flamarrest®           | LS PVC - Low Smoke Polyvinyl Chloride | 0.077      |

Insulation Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Red   |
| 2      | Black |

**Individual Shield****Applicable Specifications and Agency Compliance****Applicable Standards & Environmental Programs**

EU CE Mark: Yes

**Electrical Characteristics**

Maximum Conductor DC Resistance:

| DCR @ 20°C (Ohm/100 m) |
|------------------------|
| 4.500                  |

**Physical Characteristics (Overall)****Conductor****Outer Shield**

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 |
|-------------------------|---------------------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter: 0.183 x 0.368 in.

**Mechanical Characteristics (Overall)**

Bulk Cable Weight: 45 lbs/1000 ft.

Max. Recommended Pulling Tension: 100 lbs.

Min. Bend Radius/Minor Axis: 1.700 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

Other Standards: ISO/IEC 11801, Category 5e for data pair

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2006

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

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|                             |     |
|-----------------------------|-----|
| MIL Order #39 (China RoHS): | Yes |
|-----------------------------|-----|

**Flame Test**

|                |          |
|----------------|----------|
| UL Flame Test: | NFPA 262 |
|----------------|----------|

**Plenum/Non-Plenum**

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

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

**Electrical Characteristics (Overall)**

Max. Operating Voltage - Non-UL:

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Notes (Overall)**

**Notes:** Overall jacket sequentially marked.

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                |
|----------------|----------|-------------|-------|-------|--------------------------|
| 6284US 0091000 | 1,000 FT | 50.000 LB   | WHITE | C     | 2P24 UTP + 2C16 CMP SIAM |
| 6284US 009500  | 500 FT   | 26.000 LB   | WHITE | C     | 2P24 UTP + 2C16 CMP SIAM |
| 6284US 010500  | 500 FT   | 26.000 LB   | BLACK | C     | 2P24 UTP + 2C16 CMP SIAM |

**Notes:**

C = CRATE REEL PUT-UP.

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