



Product: [D6UP](#)

Category 6 Cable, 4 Pair, U/UTP, CMP

Product Description

Category 6 Premise Horizontal Cable (250MHz), 4 Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Plenum-CMP, Flamarrest® PVC-LS Jacket

Technical Specifications

Product Overview

|                        |                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, Surveillance, PoE++, PoE+, PoE                                                      |
| Patent:                | This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> . |

Construction Details

Conductor

| Size | Stranding | Material         | No. of Pairs |
|------|-----------|------------------|--------------|
| 23   | Solid     | BC - Bare Copper | 4            |

Insulation

| Material                                             | Color Code                                                                                                     |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| PO+FEP - Polyolefin + Fluorinated Ethylene Propylene | White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown |

Outer Jacket

| Material                 | Material Trade Name | Nom. Diameter      | Ripcord |
|--------------------------|---------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.224 in (5.69 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.224 in (5.69 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Max. Conductor DCR | Max. Capacitance Unbalance |
|--------------------|----------------------------|
| 78 Ohm/km          | 330 pF/100m                |

Delay

| Frequency | Max. Delay    | Max. Delay Skew | Nom. Velocity of Prop. |
|-----------|---------------|-----------------|------------------------|
| 100 MHz   | 537.6 ns/100m | 35 ns/100m      | 72%                    |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP)       |

Mechanical Characteristics

Temperature

| UL Temperature | Operating      | Installation | Storage        |
|----------------|----------------|--------------|----------------|
| 75°C           | -20°C To +75°C | 0°C To +50°C | -20°C To +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 1.0 in (25 mm)  | 2.25              |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 25 lbs/1000ft  |

Standards and Compliance

|                                       |                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:            | PlenumIndoor, Indoor                                                                                                                         |
| Sustainability:                       | Product Lens™, Environmental Product Declaration (EPD) Available                                                                             |
| Flammability / Reaction to Fire:      | NFPA 262, UL 910 (Plenum)                                                                                                                    |
| CPR Compliance:                       | CPR Euroclass: Eca                                                                                                                           |
| NEC / UL Compliance:                  | CMP                                                                                                                                          |
| CEC / C(UL) Compliance:               | CMP                                                                                                                                          |
| IEEE Compliance:                      | IEEE 802.3bt Type 1, Type 2, Type 3, Type 4                                                                                                  |
| Data Category:                        | Category 6                                                                                                                                   |
| TIA/EIA Compliance:                   | ANSI/TIA-568.2-D Category 6                                                                                                                  |
| Third Party Performance Verification: | Category 6                                                                                                                                   |
| ISO/IEC Compliance:                   | ISO/IEC 11801-1, IEC 61156-5                                                                                                                 |
| European Directive Compliance:        | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2017-07-10 |
| APAC Compliance:                      | China RoHS II (GB/T 26572-2011)                                                                                                              |
| Non-Plenum Number:                    | D6UR                                                                                                                                         |

Product Notes

|        |                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. |
|--------|----------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.113 Revision Date: 06-03-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color       | Putup Type | Length   |
|---------------|-------------|------------|----------|
| D6UP 010U1000 | Black       | UnReel     | 1,000 ft |
| D6UP D15U1000 | Blue        | UnReel     | 1,000 ft |
| D6UP 008U1000 | Gray        | UnReel     | 1,000 ft |
| D6UP 005U1000 | Green, Dark | UnReel     | 1,000 ft |
| D6UP 003U1000 | Orange      | UnReel     | 1,000 ft |
| D6UP 002U1000 | Red         | UnReel     | 1,000 ft |
| D6UP 007U1000 | Violet      | UnReel     | 1,000 ft |
| D6UP 009U1000 | White       | UnReel     | 1,000 ft |
| D6UP 004U1000 | Yellow      | UnReel     | 1,000 ft |

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