



**Product:** [1227A1](#) 

Category 3 Horizontal Cable, 2 Pair, U/UTP, CMR

## Product Description

Category 3 Premise Horizontal Cable (16MHz), 2 Pair, 24 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR, PVC Jacket

## Technical Specifications

### Product Overview

|                        |                                      |
|------------------------|--------------------------------------|
| Suitable Applications: | Ethernet 10BASE-T, Analog Phone, FAX |
|------------------------|--------------------------------------|

### Construction Details

#### Conductor

| Size   | Stranding | Material         | No. of Pairs |
|--------|-----------|------------------|--------------|
| 24 AWG | Solid     | BC - Bare Copper | 2            |

#### Insulation

| Material        | Color Code   |
|-----------------|--|
| PO - Polyolefin | White/Blue Stripe & Blue, White/Orange Stripe & Orange |

#### Outer Jacket

| Material                 | Nom. Diameter      | Ripcord |
|--------------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.173 in (4.39 mm) | No      |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.173 in (4.39 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Max. Conductor DCR            | Max. Capacitance Unbalance |
|-------------------------------|----------------------------|
| 93.8 Ohm/km (28.6 Ohm/1000ft) | 90 pF/100m                 |

#### Delay

| Frequency | Max. Delay  | Max. Delay Skew | Nom. Velocity of Prop. |
|-----------|-------------|-----------------|------------------------|
| 16 MHz    | 543 ns/100m | 45 ns/100m      | 70%                    |

#### High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. SRL (Structural Return Loss) [dB] | Max./Min. Fitted Impedance [Ohm] |
|-----------------|-----------------------------------|----------------|--|----------------------------------|
| 1               | 2.6 dB/100m                       | 41.0           | 12.0                                   | 100 ± 15                         |
| 4               | 5.6 dB/100m                       | 32.0           | 12.0                                   | 100 ± 15                         |
| 8               | 8.5 dB/100m                       | 27.0           | 12.0                                   | 100 ± 15                         |
| 10              | 9.7 dB/100m                       | 26.0           | 12.0                                   | 100 ± 15                         |
| 16              | 13.1 dB/100m                      | 23.0           | 10.0                                   | 100 ± 15                         |

#### Voltage

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

### 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)  | 1.75 in (44.5 mm) |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 15 lbs (6.8 kg) |
| Bulk Cable Weight: | 12 lbs/1000ft   |

## Standards and Compliance

|                                       |   |
|---------------------------------------|---|
| Environmental Suitability:            | Riser, Indoor, Outdoor, Sunlight Resistance   |
| Sustainability:                       | Product Lens™, Environmental Product Declaration (EPD) Available  |
| Flammability / Reaction to Fire:      | UL 1666 Riser, FT4, IEC 60332-1-2   |
| CPR Compliance:                       | CPR Euroclass: Eca; CPR UKCA Class: Eca   |
| NEC / UL Compliance:                  | Article 800, CMR  |
| CEC / C(UL) Compliance:               | CMR   |
| ICEA Compliance:                      | S-90-661  |
| NEMA Compliance:                      | NEMA WC-63.1  |
| Data Category:                        | Category 3  |
| TIA/EIA Compliance:                   | ANSI/TIA-568.2-D Category 3   |
| Third Party Performance Verification: | Category 3  |
| European Directive Compliance:        | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16 |
| UK Regulation Compliance:             | UKCA Mark   |
| APAC Compliance:                      | China RoHS II (GB/T 26572-2011)   |
| Plenum Number:                        | 1243A2  |

## Product Notes

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

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.555 Revision Date: 02-20-2026 |
|----------------------|--|

## Part Numbers

### Variants

| Item #          | Color | Putup Type | Length   | UPC          |
|-----------------|-------|------------|----------|--------------|
| 1227A1 008U1000 | Gray  | UnReel     | 1,000 ft | 612825109266 |
| 1227A1 Q5HU1000 | White | UnReel     | 1,000 ft | 612825109259 |

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