



**Product:** [7883A](#) 

CAT6 Patch, 4pr, UTP, PVC Jkt, CMR

## Product Description

CAT6 (250MHz), 4-Pair, U/UTP-unshielded, Riser-CMR, Premise Patch cable, 24 AWG solid bare copper conductors, polyolefin insulation, central filler, PVC jacket, RG-45 compatible

## Technical Specifications

### Product Overview

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| Suitable Applications: | Premise Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM |
|------------------------|------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Size | Stranding | Material         | No. of Pairs |
|------|-----------|------------------|--------------|
| 24   | Solid     | BC - Bare Copper | 4            |

#### Insulation

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

#### Outer Jacket

| Separator      | Material                 | Nom. Diameter | Ripcord |
|----------------|--------------------------|---------------|---------|
| Central Filler | PVC - Polyvinyl Chloride | 0.205 in      | No      |

### Electrical Characteristics

#### Electricals

| Max. Conductor DCR            | Max. Capacitance Unbalance |
|-------------------------------|----------------------------|
| 93.8 Ohm/km (28.6 Ohm/1000ft) | 160 pF/100m                |

#### Delay

| Frequency | Max. Delay    | Max. Delay Skew | Nom. Velocity of Prop. |
|-----------|---------------|-----------------|------------------------|
| 100 MHz   | 537.6 ns/100m | 45 ns/100m      | 70%                    |

#### High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) [dB/100m] | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Max./Min. Input Impedance (unFitted) | Max./Min. Fitted Impedance | Min. TCL [dB] | Min. ELTCTL [dB] |
|-----------------|---------------------------------------------|----------------|------------------|-------------------------|-----------------------------|----------------------------|--------------------------------------|----------------------------|---------------|------------------|
| 1               | 2.4                                         | 74.3           | 72.3             | 67.8                    | 64.8                        | 20.0                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 40.0          | 35.0             |
| 4               | 4.5                                         | 65.3           | 63.3             | 55.8                    | 52.7                        | 23.0                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 40.0          | 23.0             |
| 8               | 6.4                                         | 60.8           | 58.8             | 49.7                    | 46.7                        | 24.5                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 40.0          | 16.9             |
| 10              | 7.1                                         | 59.3           | 57.3             | 47.8                    | 44.8                        | 25.0                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 40.0          | 15.0             |
| 16              | 9.1                                         | 56.2           | 54.3             | 43.7                    | 40.7                        | 25.0                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 38.0          | 10.9             |
| 20              | 10.2                                        | 54.8           | 52.8             | 41.8                    | 38.8                        | 25.0                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 37.0          | 9.0              |
| 25              | 11.4                                        | 53.3           | 51.3             | 39.8                    | 36.8                        | 24.3                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 36.0          | 7.0              |
| 31.25           | 12.8                                        | 51.9           | 49.9             | 37.9                    | 34.9                        | 23.6                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 35.1          | 5.1              |
| 62.5            | 18.5                                        | 47.4           | 45.4             | 31.9                    | 28.9                        | 21.5                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 32.0          |                  |
| 100             | 23.8                                        | 44.3           | 42.3             | 27.8                    | 24.8                        | 20.1                       | 100 ± 15 Ohm                         | 100 ± 15 Ohm               | 30.0          |                  |
| 155             | 30.2                                        | 41.5           | 39.5             | 23.9                    | 20.9                        | 18.8                       | 100 ± 22 Ohm                         | 100 ± 15 Ohm               | 28.1          |                  |

|     |      |      |      |      |      |      |              |              |      |  |
|-----|------|------|------|------|------|------|--------------|--------------|------|--|
| 200 | 34.8 | 39.8 | 37.8 | 21.8 | 18.8 | 18.0 | 100 ± 22 Ohm | 100 ± 15 Ohm | 27.0 |  |
| 250 | 39.4 | 38.3 | 36.3 | 19.8 | 16.8 | 17.3 | 100 ± 32 Ohm | 100 ± 15 Ohm | 26.0 |  |

Voltage

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

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 in (57.2 mm) |

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 25 lbs (11 kg)           |
| Bulk Cable Weight: | 20 lbs/1000ft (30 kg/km) |

Standards and Compliance

|                                       |                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:            | Riser, Indoor                                                                                                                                |
| 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                                                                                                                           |
| NEC / UL Compliance:                  | CMR                                                                                                                                          |
| CEC / C(UL) Compliance:               | CMR                                                                                                                                          |
| IEEE Compliance:                      | IEEE 802.3bt Type 1, Type 2, Type 3, Type 4                                                                                                  |
| Data Category:                        | Category 6                                                                                                                                   |
| TIA/EIA Compliance:                   | ANSI/TIA-568-C.2 Category 6 Patch                                                                                                            |
| Third Party Performance Verification: | Category 6 Patch                                                                                                                             |
| ISO/IEC Compliance:                   | 11801 ed 2.2 (2011) Class E Patch                                                                                                            |
| CENELEC Compliance:                   | Segregation class according EN50174-2 = a                                                                                                    |
| 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 |
| UK Regulation Compliance:             | UKCA Mark                                                                                                                                    |
| APAC Compliance:                      | China RoHS II (GB/T 26572-2011)                                                                                                              |

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: 0.518 Revision Date: 02-20-2026 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color  | Putup Type | Length   | UPC          | Footnote |
|---------------|--------|------------|----------|--------------|----------|
| 7883A 0101000 | Black  | Reel       | 1,000 ft | 612825190660 | C        |
| 7883A 0101000 | Black  | Reel       | 1,000 ft | 612825190660 | C        |
| 7883A 0061000 | Blue   | Reel       | 1,000 ft | 612825190639 | C        |
| 7883A 0061000 | Blue   | Reel       | 1,000 ft | 612825190639 | C        |
| 7883A F2V1000 | Gray   | Reel       | 1,000 ft | 612825190585 | C        |
| 7883A F2V1000 | Gray   | Reel       | 1,000 ft | 612825190585 | C        |
| 7883A 0051000 | Green  | Reel       | 1,000 ft | 612825190622 | C        |
| 7883A 0051000 | Green  | Reel       | 1,000 ft | 612825190622 | C        |
| 7883A 0031000 | Orange | Reel       | 1,000 ft | 612825190608 | C        |
| 7883A 0031000 | Orange | Reel       | 1,000 ft | 612825190608 | C        |
| 7883A 0071000 | Purple | Reel       | 1,000 ft | 612825190646 | C        |
| 7883A 0071000 | Purple | Reel       | 1,000 ft | 612825190646 | C        |
| 7883A 0021000 | Red    | Reel       | 1,000 ft | 612825190592 | C        |
| 7883A 0021000 | Red    | Reel       | 1,000 ft | 612825190592 | C        |

|               |        |      |          |              |   |
|---------------|--------|------|----------|--------------|---|
| 7883A 0091000 | White  | Reel | 1,000 ft | 612825190653 | C |
| 7883A 0091000 | White  | Reel | 1,000 ft | 612825190653 | C |
| 7883A 0041000 | Yellow | Reel | 1,000 ft | 612825190615 | C |
| 7883A 0041000 | Yellow | Reel | 1,000 ft | 612825190615 | C |

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

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