



**Product:** [1583E](#) 

Category 5e Cable, 4 Pair, U/UTP, PVC Indoor CPR Eca

## Product Description

Category 5e Premise Horizontal Cable (100MHz), 4-Pair, 24 AWG solid bare copper conductors, U/UTP, Polyethylene insulation, PVC jacket

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Horizontal and building backbone cable; Support current and future Category 5e applications, such as: 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

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

#### Insulation

| Element         | Material          | Nom. Insulation Diameter | Color Code                                                                         |
|-----------------|-------------------|--------------------------|------------------------------------------------------------------------------------|
| Individual Pair | PE - Polyethylene | 0.9 mm (0.035 in)        | White/Blue & Blue, White/Green & Green, White/Orange & Orange, White/Brown & Brown |

#### Outer Jacket

| Material                 | Nom. Diameter    |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 4.5 mm (0.18 in) |

### Electrical Characteristics

#### Electricals

| Max. Conductor DCR        | Max. Mutual Capacitance | Max. Capacitance Unbalance | Nom. Characteristic Impedance |
|---------------------------|-------------------------|----------------------------|-------------------------------|
| 95 Ohm/km (29 Ohm/1000ft) | 56 pF/m (17 pF/ft)      | 160 pF/100m                | 100 Ohm                       |

#### Delay

| Max. Delay Skew | Nom. Velocity of Prop. |
|-----------------|------------------------|
| 40 ns/100m      | 70%                    |

#### High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACR [dB] | Min. PSACR [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Min. TCL [dB] | Min. ELTCTL [dB] |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|---------------|------------------|
| 1               | 2.1 dB/100m                       | 65.3           | 62.3             | 63.2          | 60.2            | 64                      | 61                          | 20                         | 40            | 35               |
| 4               | 4 dB/100m                         | 56.3           | 53.3             | 52.32         | 49.3            | 52                      | 49                          | 23                         | 34            | 23               |
| 10              | 6.3 dB/100m                       | 50.3           | 47.3             | 44            | 41              | 44                      | 41                          | 25                         | 30            | 15               |
| 16              | 8 dB/100m                         | 47.2           | 44.2             | 39.2          | 36.2            | 39.9                    | 36.9                        | 25                         | 28            | 10.9             |
| 20              | 9 dB/100m                         | 45.8           | 42.8             | 36.8          | 33.8            | 38                      | 35                          | 25                         | 27            | 9                |
| 31.25           | 11.4 dB/100m                      | 42.9           | 39.9             | 31.5          | 28.5            | 34.1                    | 31.5                        | 23.6                       | 25.1          | 5.5              |
| 62.5            | 16.5 dB/100m                      | 38.4           | 35.4             | 21.9          | 18.9            | 28.1                    | 25.1                        | 21.5                       | 22            |                  |
| 100             | 21.3 dB/100m                      | 35.3           | 32.3             | 14            | 11              | 24                      | 21                          | 20.1                       | 20            |                  |

|                             |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| High Frequency Table Notes: | Limits below 4 MHz are for information only. Reference standard: IEC 61156-5 |
|-----------------------------|------------------------------------------------------------------------------|

#### Voltage

| Voltage Rating |
|----------------|
|----------------|

72 V DC

Mechanical Characteristics

Temperature

| Operating      | Installation |
|----------------|--------------|
| -30°C To +60°C | 0°C To +50°C |

Bend Radius

| Installation Min. |
|-------------------|
| 40 mm (1.6 in)    |

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 65 N (15 lbf)            |
| Bulk Cable Weight: | 28 kg/km (19 lbs/1000ft) |

Standards and Compliance

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| Environmental Suitability:       | Indoor - Euroclass Eca                                |
| Flammability / Reaction to Fire: | IEC 60332-1-2                                         |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca               |
| IEEE Compliance:                 | PoE: IEEE 802.3bt Type 1, Type 2, Type 3              |
| Data Category:                   | Category 5e                                           |
| ISO/IEC Compliance:              | ISO/IEC 11801-1                                       |
| CENELEC Compliance:              | EN 50173-1, Segregation class according EN50174-2 = a |
| UK Regulation Compliance:        | UKCA Mark                                             |

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

Part Numbers

Variants

| Item #       | Color          | Putup Type | Length   | EAN           |
|--------------|----------------|------------|----------|---------------|
| 1583E.03305  | Black          | Reel       | 305 m    | 8719605002143 |
| 1583E.03U305 | Black          | UnReel     | 305 m    | 8719605002150 |
| 1583E.01B100 | Blue           | Flat Box   | 100 m    | 8719605002129 |
| 1583E.01305  | Blue           | Reel       | 305 m    | 8719605002105 |
| 1583E.01U305 | Blue           | UnReel     | 305 m    | 8719605002136 |
| 1583E.K1305  | Blue           | Reel       | 305 m    | 8719605002310 |
| 1583E.01500  | Blue           | Reel       | 500 m    | 8719605002112 |
| 1583E.13U305 | Blue           | Unreel     | 1,000 ft | 8719605002297 |
| 1583E.011000 | Blue           | Reel       | 1,000 m  | 8719605002099 |
| 1583E.00B100 | Gray, RAL 7032 | Flat Box   | 100 m    | 8719605002075 |
| 1583E.00305  | Gray, RAL 7032 | Reel       | 305 m    | 8719605002044 |
| 1583E.00U305 | Gray, RAL 7032 | UnReel     | 305 m    | 8719605002082 |
| 1583E.K0305  | Gray, RAL 7032 | Reel       | 305 m    | 8719605002303 |
| 1583E.B0U305 | Gray, RAL 7032 | UnReel     | 305 m    | 8719605229304 |
| 1583E.00500  | Gray, RAL 7032 | Reel       | 500 m    | 8719605002068 |
| 1583E.001000 | Gray, RAL 7032 | Reel       | 1,000 m  | 8719605002037 |
| 1583E.003500 | Gray, RAL 7032 | Reel       | 3,500 m  | 8719605176783 |
| 1583E.003570 | Gray, RAL 7032 | Reel       | 3,570 m  | 8719605002051 |
| 1583E.09305  | Green          | Reel       | 305 m    | 8719605002204 |
| 1583E.09U305 | Green          | UnReel     | 305 m    | 8719605002228 |
| 1583E.09500  | Green          | Reel       | 500 m    | 8719605002211 |
| 1583E.11305  | Red            | Reel       | 305 m    | 8719605002259 |
| 1583E.11U305 | Red            | UnReel     | 305 m    | 8719605002266 |
| 1583E.12B100 | White          | Flat Box   | 100 m    | 8719605002273 |
| 1583E.04U305 | White          | UnReel     | 305 m    | 8719605002174 |
| 1583E.12U305 | White          | UnReel     | 305 m    | 8719605002280 |
| 1583E.B4U305 | White          | UnReel     | 305 m    | 8719605229311 |

|              |        |        |       |               |
|--------------|--------|--------|-------|---------------|
| 1583E.04500  | White  | Reel   | 500 m | 8719605002167 |
| 1583E.10305  | Yellow | Reel   | 305 m | 8719605002235 |
| 1583E.10U305 | Yellow | UnReel | 305 m | 8719605002242 |

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