



Product: [1585LC](#)

Category 5e Cable, 4 Pair, U/UTP, LC, CMP

Product Description

Category 5e Premise Horizontal Cable (200MHz), 4 Pair, 24 AWG Solid Bare Copper Conductors, U/UTP, Limited Combustible, Plenum-CMP, FEP Jacket

Technical Specifications

Product Overview

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE |
|------------------------|---------------------------------------------------------------------------------------------------------|

Construction Details

Conductor

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

Insulation

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

Outer Jacket

| Material                             | Nom. Diameter      | Ripcord |
|--------------------------------------|--------------------|---------|
| FEP - Fluorinated Ethylene Propylene | 0.184 in (4.67 mm) | No      |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.184 in (4.67 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

| Electricals                   |                 |                        |
|-------------------------------|-----------------|------------------------|
| Max. Conductor DCR            |                 |                        |
| 93.8 Ohm/km (28.6 Ohm/1000ft) |                 |                        |
| Delay                         |                 |                        |
| Max. Delay                    | Max. Delay Skew | Nom. Velocity of Prop. |
| 510 ns/100m                   | 45 ns/100m      | 72%                    |

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. SRL (Structural Return Loss) [dB] | Max./Min. Input Impedance (unFitted) [Ohm] | Max./Min. Fitted Impedance [Ohm] |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|----------------------------------------|--------------------------------------------|----------------------------------|
| 1               | 2.0 dB/100m                       | 65.3           | 62.3             | 63            | 60.3            | 63.8                    | 60.8                        | 20                         | 23                                     | 100 ± 15                                   | 100 ± 15                         |
| 4               | 4.1 dB/100m                       | 56.3           | 53.3             | 51            | 49.2            | 51.7                    | 48.7                        | 23                         | 23                                     | 100 ± 15                                   | 100 ± 15                         |
| 8               | 5.8 dB/100m                       | 51.8           | 48.8             | 46            | 43              | 45.7                    | 42.7                        | 24.5                       | 24.5                                   | 100 ± 15                                   | 100 ± 15                         |
| 10              | 6.5 dB/100m                       | 50.3           | 47.3             | 43            | 40.8            | 43.8                    | 40.8                        | 25                         | 25                                     | 100 ± 15                                   | 100 ± 15                         |
| 16              | 8.2 dB/100m                       | 47.3           | 44.3             | 39            | 36              | 39.7                    | 36.7                        | 25                         | 25                                     | 100 ± 15                                   | 100 ± 15                         |
| 20              | 9.3 dB/100m                       | 45.8           | 42.8             | 36.5          | 33.5            | 37.7                    | 34.7                        | 25                         | 25                                     | 100 ± 15                                   | 100 ± 15                         |
| 25              | 10.4 dB/100m                      | 44.3           | 41.3             | 33.9          | 30.9            | 35.8                    | 32.8                        | 24.3                       | 24.3                                   | 100 ± 15                                   | 100 ± 15                         |
| 31.25           | 11.7 dB/100m                      | 42.9           | 39.9             | 31            | 28.2            | 33.9                    | 30.9                        | 23.6                       | 23.6                                   | 100 ± 15                                   | 100 ± 15                         |
| 62.5            | 17.0 dB/100m                      | 38.4           | 35.4             | 22            | 19              | 27.8                    | 24.9                        | 21.5                       | 21.5                                   | 100 ± 15                                   | 100 ± 15                         |
| 100             | 22.0 dB/100m                      | 35.3           | 32.3             | 14            | 10.3            | 23.8                    | 20.8                        | 20.1                       | 20.1                                   | 100 ± 15                                   | 100 ± 15                         |

|     |              |      |      |     |     |      |      |      |  |          |          |
|-----|--------------|------|------|-----|-----|------|------|------|--|----------|----------|
| 155 | 28.1 dB/100m | 32.5 | 29.5 | 4.4 | 1.4 | 19.9 | 16.9 | 15.8 |  | 100 ± 25 | 100 ± 15 |
| 200 | 32 dB/100m   | 30.8 | 27.8 | 4   | 1   | 17.7 | 14.7 | 15   |  | 100 ± 25 | 100 ± 15 |

Voltage

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

Mechanical Characteristics

Temperature

| Operating       | Installation | Storage        |
|-----------------|--------------|----------------|
| -40°C To +150°C | 0°C To +50°C | -20°C To +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 1 in (25 mm)    | 1.8 in (46 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 35 lbs (16 kg) |
| Bulk Cable Weight: | 21 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Plenum, Indoor, Aerial - When supported by messenger wire                                                                                           |
| Flammability / Reaction to Fire: | NFPA 262 Plenum Flame Test (UL910),UL723 (NFPA 255), FT6, IEC 60332-1-2                                                                             |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca                                                                                                             |
| NEC / UL Compliance:             | Article 800, CMP                                                                                                                                    |
| CEC / C(UL) Compliance:          | CMP                                                                                                                                                 |
| IEEE Compliance:                 | IEEE 802.3bt Type 1, Type 2, Type 3                                                                                                                 |
| Data Category:                   | Category 5e                                                                                                                                         |
| TIA/EIA Compliance:              | ANSI/TIA-568.2-D Category 5e                                                                                                                        |
| ISO/IEC Compliance:              | ISO/IEC 11801-1, IEC 61156-5                                                                                                                        |
| 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:                   | 1585A                                                                                                                                               |
| Non-Plenum Number:               | 1583A                                                                                                                                               |

Product Notes

|        |                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.453 Revision Date: 04-29-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type | Length   | UPC          | Footnote |
|-----------------|-------|------------|----------|--------------|----------|
| 1585LC 006U1000 | Blue  | UnReel     | 1,000 ft | 612825118466 |          |
| 1585LC 0061000  | Blue  | Reel       | 1,000 ft | 612825118473 | C        |
| 1585LC 009U1000 | White | UnReel     | 1,000 ft | 612825118480 |          |
| 1585LC 0091000  | White | Reel       | 1,000 ft | 612825118497 | C        |

© 2024 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.