Belden



# Product: 1633ENH

## Category 5e Cable, 4 Pair, F/UTP, LSZH Indoor CPR Dca

### Product Description

Category 5e Premise Horizontal Cable (100MHz), 4-Pair, 24 AWG solid bare copper conductors, F/UTP, Polyethylene insulation, Beldfoil® shield, AWG 26 solid tinned copper drainwire, LSZH 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 | 1.05 mm (0.0413 in) | White/Blue & Blue, White/Green & Green, White/Orange & Orange, White/Brown & Brown |

**Outer Shield**

| Shield Type | Material | Coverage | Drainwire Type |
|---|---|---|---|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 26 AWG (Solid) TC |

| | |
|---|---|
| Outer Shield Table Notes: | Aluminum facing outside in contact with drain wire |

**Outer Jacket**

| Material | Nom. Diameter |
|---|---|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 6.0 mm (0.24 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 | 69% |

**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 |

**Transfer Impedance**

| Frequency | Max. Transfer Impedance |
|---|---|
| 1 Mhz | Max. 50 mOhm/m |
| 10 Mhz | Max. 100 mOhm/m |
| 30 Mhz | Max. 200 mOhm/m |
| 100 Mhz | Max. 1000 mOhm/m |

| | |
|---|---|
| Transfer Impedance Class: | Grade 2 |

**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. |
|---|
| 48 mm (1.9 in) |

| | |
|---|---|
| Max. Pull Tension: | 72 N (16 lbf) |
| Bulk Cable Weight: | 39 kg/km (26 lbs/1000ft) |

## Standards and Compliance

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|---|---|
| Environmental Suitability: | Indoor - Euroclass Dca |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Dca-s2,d2,a1; CPR UKCA Class: Dca-s2,d2,a1 |
| 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 = c |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 60% |
| UK Regulation Compliance: | UKCA Mark |

## Product Notes

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

## History

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|---|---|
| Update and Revision: | Revision Number: 0.311 Revision Date: 02-20-2026 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | EAN |
|---|---|---|---|---|
| 1633ENH.07305 | Black | Reel | 305 m | 8719605169075 |
| 1633ENH.01B100 | Blue | Flat Box | 100 m | 8719605002884 |
| 1633ENH.01305 | Blue | Reel | 305 m | 8719605002860 |
| 1633ENH.01500 | Blue | Reel | 500 m | 8719605002877 |
| 1633ENH.00B100 | Gray, RAL 7032 | Flat Box | 100 m | 8719605002853 |
| 1633ENH.00305 | Gray, RAL 7032 | Reel | 305 m | 8719605002839 |
| 1633ENH.B0305 | Gray, RAL 7032 | Reel | 305 m | 8719605229267 |
| 1633ENH.00500 | Gray, RAL 7032 | Reel | 500 m | 8719605002846 |
| 1633ENH.001000 | Gray, RAL 7032 | Reel | 1,000 m | 8719605002815 |
| 1633ENH.002050 | Gray, RAL 7032 | Reel | 2,050 m | 8719605002822 |
| 1633ENH.03305 | Green | Reel | 305 m | 8719605002907 |

| | | | | |
|---|---|---|---|---|
| 1633ENH.03500 | Green | Reel | 500 m | 8719605206824 |
| 1633ENH.02305 | Orange | Reel | 305 m | 8719605002891 |
| 1633ENH.04305 | Red | Reel | 305 m | 8719605002914 |
| 1633ENH.04500 | Red | Reel | 500 m | 8719605206831 |
| 1633ENH.041000 | Red | Reel | 1,000 m | 8719605169082 |
| 1633ENH.06305 | White | Reel | 305 m | 8719605202482 |
| 1633ENH.05305 | Yellow | Reel | 305 m | 8719605002921 |
| 1633ENH.05500 | Yellow | Reel | 500 m | 8719605206848 |

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