



Product: [NN00097](#)

Category 3 Cable, 25 Pair, U/UTP, LSZH Outdoor



Product Description

Category 3 Premise Horizontal Cable (16MHz), 25-pair, 24 AWG, HDPE insulation, U/UTP, LSZH jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Backbone cable; Support current and future Category 3 applications, suitable for outdoor use |
|------------------------|--|

Construction Details

Conductor

| Size | Stranding | Material | No. of Pairs |
|--------|-----------|------------------|--------------|
| 24 AWG | Solid | BC - Bare Copper | 25 |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|-------------------|--------------------------|--|
| PE - Polyethylene | 0.88 mm (0.035 in) | White & Blue, White & Orange, White & Green, White & Brown, White & Grey, Red & Blue, Red & Orange, Red & Green, Red & Brown, Red & Grey, Black & Blue, Black & Orange, Black & Green, Black & Brown, Black & Grey, Yellow & Blue, Yellow & Orange, Yellow & Green, Yellow & Brown, Yellow & Grey, Violet & Blue, Violet & Orange, Violet & Green, Violet & Brown, Violet & Grey |

| | |
|--------------|---------------------|
| Table Notes: | Telecom Color Order |
|--------------|---------------------|

Cable Core

| Description |
|---|
| 2+8+15 pairs twisted in concentric layers and covered with a polyester foil |

Outer Jacket

| Material | Nom. Diameter | Ripcord |
|---|--------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 12.2 mm (0.480 in) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 12.2 mm (0.480 in) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Max. Conductor DCR | Max. Mutual Capacitance | Max. Capacitance Unbalance | Nom. Characteristic Impedance |
|--------------------|-------------------------|----------------------------|-------------------------------|
| 93.8 Ohm/km | 66 pF/m (20 pF/ft) | 330 pF/100m | 100 Ohm |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. SRL (Structural Return Loss) [dB] |
|-----------------|-----------------------------------|----------------|------------------|--|
| 0.772 | 2.2 dB/100m | 45 | 43 | 12 |
| 1 | 2.6 dB/100m | 44 | 41 | 12 |
| 4 | 5.6 dB/100m | 34 | 32 | 12 |
| 8 | 8.5 dB/100m | 29 | 27 | 12 |
| 10 | 9.7 dB/100m | 28 | 26 | 12 |
| 16 | 13.1 dB/100m | 25 | 23 | 10 |

Voltage

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

72 V DC

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 61 mm (2.4 in) | 183 mm |

Standards and Compliance

| | |
|--------------------------------|-----------------|
| Environmental Suitability: | Outdoor |
| Data Category: | Category 3 |
| ISO/IEC Compliance: | ISO/IEC 11801-1 |
| European Directive Compliance: | EU CE 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. |
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History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.239 Revision Date: 09-04-2024 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|----------------|-------|------------|---------|---------------|
| NN00097.00305 | Gray | Reel | 305 m | 8719605103482 |
| NN00097.001000 | Gray | Reel | 1,000 m | 8719605103475 |

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