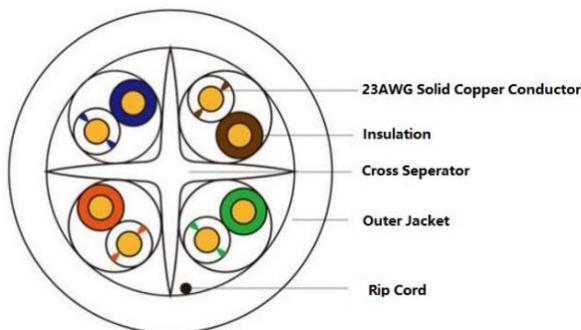
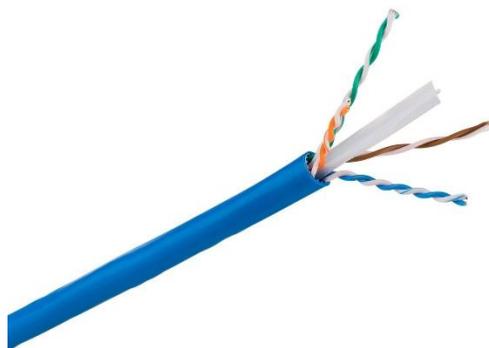


## CAT.6A U/UTP CABLE - CC6AUBLL3



Browse on Mobile

 Browse on Web

NEXCONEC<sup>®</sup> Category 6A U/UTP cables are specifically designed to deliver robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters.

Each Category 6A U/UTP exceed the minimum specified performance for Category 6A U/UTP cables and support all CLASS EA applications.

### FEATURES

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 23AWG premium grade copper conductor
- ✓ U/UTP cable structure with cross separator inside for better cable performance
- ✓ Cable jacket available in LSZH, CM, PVC
- ✓ ETL certified Channel test

### APPLICATIONS

- ✓ Supports category 6A (Class EA) networks running up to 500MHz applications
- ✓ Horizontal and backbone in structured cabling installations

## SPECIFICATIONS

| Parameters             | Value   |
|------------------------|---|
| Electrical Performance | Certified performance in a 4-connector configuration up to 100 meters |
| Conductor/Insulator    | 23 AWG solid copper insulated with HPDE                               |
| Operating Temperature  | -20°C / +75°C   |
| Compliance             | ANSI/TIA-568-C.2, ISO 11801, IEC 60603-7, ETL Verified                |
| RoHS Compliance        | Compliant   |

## CABLE SPECIFICATION (CONSTRUCTION)

| Parameters       | Units | Value  |
|------------------|-------|--|
| Cable OD         | mm    | 6.9mm±0.2mm  |
| Shielding        |       | None   |
| Insulation       |       | HDPE   |
| Pair Color Codes |       | Pair 1: White/Blue, and Blue<br>Pair 2: White/Orange, and Orange<br>Pair 3: White/Green, and Green<br>Pair 4: White/Brown, and Brown |
| Sheath Color     |       | Blue (RAL 5012)<br>Grey (RAL 7046)<br>Black (RAL 9005)   |
| Conductor        |       | 23AWG Solid Copper   |

**CABLE SPECIFICATION (MECHANICAL)**

| Parameters                             | Value                  |
|--|------------------------|
| <b>Bulk Cable Weight</b>               | 47 Kg/km               |
| <b>Max. Pull Tension</b>               | 100N                   |
| <b>Min. Bend Radius (installation)</b> | 8x OD.                 |
| <b>Min. Bend Radius (installed)</b>    | 4x OD.                 |
| <b>Cold Bend</b>                       | No crack @-20°C x 4hrs |
| <b>Storage Temp.</b>                   | -20°C to +70°C         |
| <b>Operation Temp.</b>                 | -20°C to +60°C         |
| <b>Installation Temp.</b>              | 0°C to +50°C           |

**CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20°C)**

| Parameters   | Units        | Value                |
|--|--------------|----------------------|
| <b>Characteristic Impedance</b>                                  | (1-100MHz)   | 100 ±15Ω             |
|  | (100-250MHz) | 100 ±18Ω             |
|  | (250-500MHz) | 100 ±25Ω             |
| <b>DC Resistance</b>   | Ω/100m       | ≤ 9.38Ω/100m max.    |
| <b>Resistance Unbalance</b>                                      | %            | ≤ 2%                 |
| <b>Capacitance Unbalance to Earth</b>                            | Pf/km        | ≤ 330 pF/km          |
| <b>Delay Skew</b>  | ns/100m      | ≤ 45ns/100m          |
| <b>Nominal Velocity of Propagation</b>                           | %            | 68%                  |
| <b>Propagation Delay (Nominal)</b>                               | ns/100m      | 533ns/100m at 500MHz |
| <b>Test Voltage (d.c. for 1 minute)<br/>Conductor /Conductor</b> | VDC          | 1000V                |
| <b>Insulation Resistance (500V d.c)</b>                          | MΩ           | ≥ 500MΩ/KM           |
| <b>Max. Operating Voltage</b>                                    | V            | 80V                  |

**TRANSMISSION LINE PERFORMANCE AT 20°C**

| Freq. MHz | RL ≥dB | ATT ≤dB | NEXT ≥dB | PHASE DELAY ≤ns | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|-----------|--------|---------|----------|-----------------|------------|------------|--------------|
| 1         | 20     | 2       | 74.5     | 570             | 72.3       | 68         | 65           |
| 4         | 23     | 3.7     | 65.3     | 552             | 63.3       | 56         | 53           |
| 10        | 25     | 5.9     | 59.3     | 545             | 57.3       | 48         | 45           |
| 20        | 25     | 8.3     | 54.8     | 541.2           | 52.8       | 42         | 39           |
| 62.5      | 21.5   | 14.9    | 47.4     | 538.5           | 45.4       | 32.1       | 29.1         |
| 100       | 20     | 19      | 44.3     | 537.6           | 42.3       | 28         | 25           |
| 250       | 17.3   | 31      | 38.2     | 536.1           | 36.5       | 20         | 17           |
| 500       | 15.2   | 45.4    | 33.7     | 532             | 31.8       | 14         | 11           |
| 600*      | 17.3   | 50.1    | 60.7     | 535.5           | 57.7       | 38.4       | 35.4         |

\* Performance for frequencies beyond TIA and ISO requirements are for information only.

**ORDER INFORMATION**

|    |   |   |   |   |   |
|----|---|---|---|---|---|
| CC | 1 | 2 | 3 | 4 | 5 |
|----|---|---|---|---|---|

| CC | 1  | CABLE CATEGORY | 2 | CABLE STRUCTURE | 3  | JACKET COLOR | 4 | JACKET MATERIAL | 5 | PACKING               |
|----|----|----------------|---|-----------------|----|--------------|---|-----------------|---|-----------------------|
|    | 6A | CAT 6A         | U | U/UTP           | BL | BLUE         | L | LSZH            | 5 | 500MTR/REEL           |
|    |    |                |   |                 | GY | GREY         | C | PVC CM          | 3 | 305MTR/REEL IN CARTON |
|    |    |                |   |                 | WH | WHITE        | P | PVC             |   |                       |
|    |    |                |   |                 | BK | BLACK        | E | PE              |   |                       |
|    |    |                |   |                 | GR | GREEN        |   |                 |   |                       |
|    |    |                |   |                 | PR | PURPLE       |   |                 |   |                       |
|    |    |                |   |                 | RD | RED          |   |                 |   |                       |