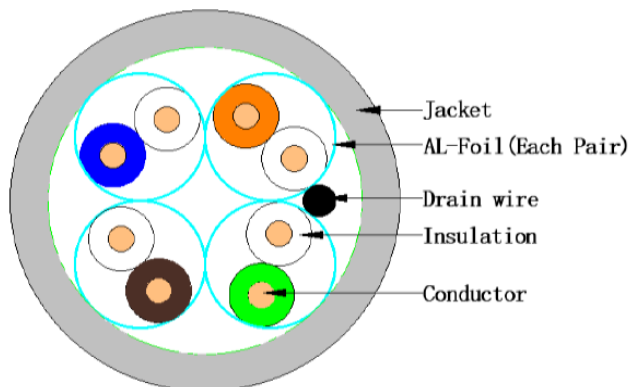


CAT.6A U/FTP 26AWG CABLE - CC6AMUFBLLC5




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NEXCONEC[®] Category 6A U/FTP 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 70 meters.

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

FEATURES

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 26AWG premium grade copper conductor
- ✓ U/FTP cable structure for better shielding in external interference environments
- ✓ Cable jacket available in LSZH, CM, PVC
- ✓ CPR Euro classes certified on demand 

APPLICATIONS

- ✓ Supports category 6A (Class EA) networks running up to 500MHz applications
- ✓ Ideal for environments where external interferences can disrupt signals
- ✓ Horizontal and backbone in structured cabling installations

SPECIFICATIONS

| Parameters | Value |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical Performance | Channel performance in a 4-connector configuration up to 70 meters |
| Conductor/Insulator | 26 AWG solid copper insulated with Foam PE |
| Installation Temperature | 0°C ~ +50°C |
| Operating Temperature | -20°C ~ +60°C |
| Compliance | IEC61156-6 & ISO/IEC 11801 |
| RoHS Compliance | Compliant |
| PoE Application | <ul style="list-style-type: none"> • IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af • IEEE 802.3bt PoE Type 2 (30 Watts) formerly 802.3at • IEEE 802.3bt PoE Type 3 (60 Watts) |

CABLE SPECIFICATION (CONSTRUCTION)

| Parameters | Units | Value |
|-------------------------------|-------|-------------------------------------------------------------------------------------------------------------|
| Cable Jacket Material | | LSZH, CPR Cca s1a,d1,a1 |
| Cable OD | mm | 6.0±0.3mm |
| Cable Jacket Thickness | mm | 0.50 ~0.60 mm |
| Insulation | | Foam PE |
| Insulation OD | mm | 0.95±0.05mm |
| Conductor | | 26 AWG solid copper |
| Conductor OD | mm | 0.40±0.01mm |
| Twisted | | 2 cores |
| AL Foil (Each Pair) | | Yes |
| Drain Wire | | Tinned Copper |
| Pair Color Codes | | Pair 1: White, and Blue Pair 2: White, and Orange Pair 3: White, and Green Pair4: White, and Brown |
| Jacket Color | | Blue (RAL 5012), Grey (RAL 7046), Black (RAL 9005) |

CABLE SPECIFICATION (MECHANICAL)

| Parameters | Value |
|-----------------------------------------------|----------------|
| Minimum Elongation at break of the conductor | 10% |
| Minimum Elongation at break of the insulation | 300% |
| Minimum Tensile strength of insulation | 10 Mpa |
| Minimum Elongation at break of the jacket | 100% |
| Minimum Tensile strength of jacket | 9 Mpa |
| Aging Condition (°C x hrs) | 100 x 168 |
| After Aging Tensile Strength (Mpa) | ≥70% of unaged |
| After Aging Elongation (%) | ≥70% of unaged |

CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20°C)

| Parameters | Value |
|------------------------------------------------|---------|
| Max. Conductor DC Resistance 20°C (Ω/km) | 145 |
| Min. insulation resistance(MΩ*km) | 5000 |
| Mutual Capacitance @1KHz(nF/KM) | < 56 |
| Pair-to-Ground Capacitance Unbalance (pF/100m) | <=160 |
| Delay Skew (ns/100m) 100MHz | ≤45 |
| Resistance Unbalance within a pair (%) | <=2 |
| Coupling attenuation(dB) | Type 1b |
| Transfer impedance | Grade 2 |
| Nominal Velocity of Propagation | 72% |

TRANSMISSION LINE PERFORMANCE AT 20°C

| Freq. MHz | RL ≥dB | ATT ≤dB | NEXT ≥dB | PHASE DELAY ≤ns | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB | Impedance(Ω) Upper Limit | Impedance(Ω) Lower Limit |
|-----------|--------|---------|----------|-----------------|------------|------------|--------------|--------------------------|--------------------------|
| 4 | 23.0 | 5.7 | 66.3 | 552 | 63.3 | 56.0 | 53.0 | 115.2 | 86.8 |
| 10 | 25.0 | 8.9 | 60.3 | 545 | 57.3 | 48.0 | 45.0 | 111.9 | 89.4 |
| 16 | 25.0 | 11.2 | 57.2 | 543 | 54.2 | 43.9 | 40.9 | 111.9 | 89.4 |
| 20 | 25.0 | 12.6 | 55.8 | 542 | 52.8 | 42.0 | 39.0 | 111.9 | 89.4 |
| 31.25 | 23.3 | 15.8 | 52.9 | 540 | 49.9 | 38.1 | 35.1 | 114.6 | 87.2 |
| 62.5 | 20.7 | 22.5 | 48.4 | 539 | 45.4 | 32.1 | 29.1 | 120.2 | 83.2 |
| 100 | 19.0 | 28.7 | 45.3 | 538 | 42.3 | 28.0 | 25.0 | 125.3 | 79.8 |
| 200 | 16.4 | 41.4 | 40.8 | 537 | 37.8 | 22.0 | 19.0 | 135.7 | 73.7 |
| 250 | 15.6 | 46.6 | 39.3 | 536 | 36.3 | 20.0 | 17.0 | 140.0 | 71.4 |
| 300 | 15.6 | 51.4 | 38.1 | 536 | 35.1 | 18.5 | 15.5 | 139.8 | 71.5 |
| 500 | 15.6 | 67.9 | 34.8 | 536 | 31.8 | 14.0 | 11.0 | 139.8 | 71.5 |

* Frequency below 4MHz is achieved by design only.

ORDER INFORMATION

| CC | 1 | 2 | 3 | 4 | 5 | 6 |
|----|---|---|---|---|---|---|
|----|---|---|---|---|---|---|

| CC | 1 | CABLE CATEGORY | 2 | CABLE TYPE | 3 | CABLE STRUCTURE | 4 | JACKET COLOR | 5 | JACKET MATERIAL | 6 | PACKING |
|----|--------|----------------|------|------------|-------|-----------------|--------|--------------|--------------|-----------------|-------------|---------|
| 6A | CAT 6A | M | SLIM | UF | U/FTP | BL | BLUE | L | LSZH | 5 | 500MTR/REEL | |
| | | | | | | GY | GREY | LC | LSZH CPR CCA | | | |
| | | | | | | WH | WHITE | C | PVC CM | | | |
| | | | | | | BK | BLACK | P | PVC | | | |
| | | | | | | GR | GREEN | E | PE | | | |
| | | | | | | PR | PURPLE | | | | | |
| | | | | | | RD | RED | | | | | |