

# Category 6A 650MHz UTP CMP Solid Cable



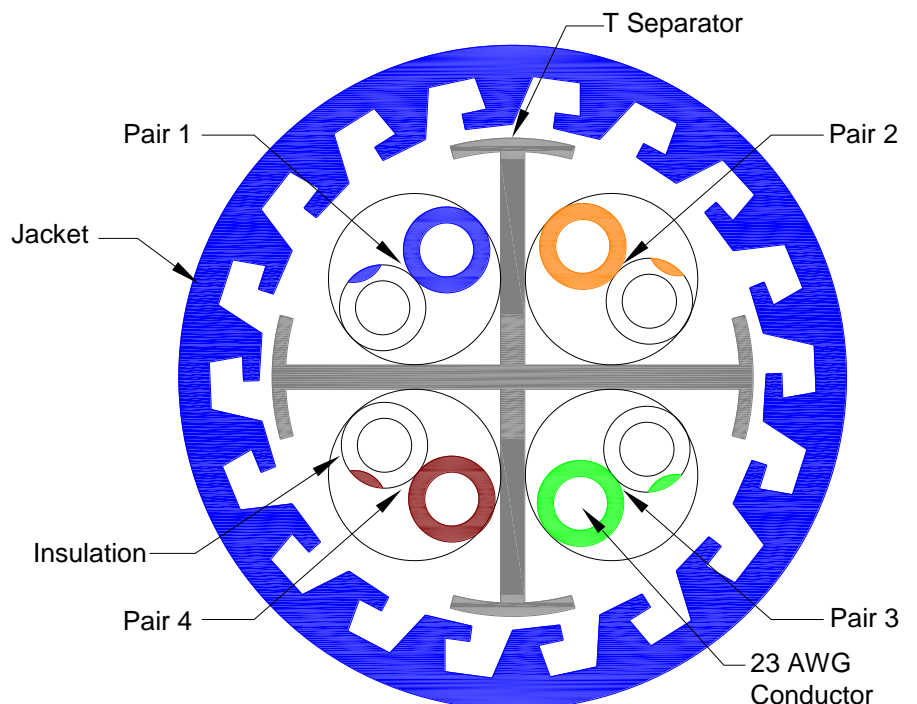
## Package Include:

A. Category 6A UTP CMP Solid Cable, **1000 Feet**

## Features and Benefits

- Complies with IEEE 802.3an 10G Base-T and TIA-568-C.2 standards
- Easy to dispense cable with reel design, saving you energy and time on the job site
- Convenient sequential footage markings for usage tracking
- UL 1863 compliant
- Plenum rated required in most commercial installations
- ETL verified TIA/EIA 568-C.2 for maximum performance
- Available in blue and white

Pair 1: Blue & White/Blue  
 Pair 2: Orange & White/Orange  
 Pair 3: Green & White/Green  
 Pair 4: Brown & White/Brown



| Category 6A 650MHz UTP Cable Electrical Performance (100 Meter Loop) |                     |                  |           |              |           |              |                        |                 |               |
|--|---------------------|------------------|-----------|--------------|-----------|--------------|------------------------|-----------------|---------------|
| Frequency(M Hz)  | Insertion Loss (dB) | Return Loss (dB) | NEXT (dB) | PS NEXT (dB) | ACRF (dB) | PS ACRF (dB) | Propagation Delay (dB) | Alien Crosstalk |               |
|  |                     |                  |           |              |           |              |                        | PS ANEXT (dB)   | PS AACRF (dB) |
| 1.0  | 2.1                 | 20               | 78.3      | 76.3         | 71.8      | 68.8         | 570.0                  | 67.0            | 67.0          |
| 4.0  | 3.8                 | 24.2             | 69.3      | 67.3         | 59.8      | 56.8         | 552.0                  | 67.0            | 66.2          |
| 8.0  | 5.3                 | 26.3             | 64.8      | 62.8         | 53.7      | 50.7         | 546.7                  | 67.0            | 60.1          |
| 10.0   | 5.9                 | 27.0             | 63.3      | 61.3         | 51.8      | 48.8         | 545.4                  | 67.0            | 58.2          |
| 16.0   | 7.5                 | 27.0             | 60.2      | 58.2         | 47.7      | 44.7         | 543.0                  | 67.0            | 54.1          |
| 20.0   | 8.4                 | 27.0             | 58.8      | 56.8         | 45.8      | 42.8         | 542.0                  | 67.0            | 52.2          |
| 25.0   | 9.4                 | 26.3             | 57.3      | 55.3         | 43.8      | 40.8         | 541.2                  | 67.0            | 50.2          |
| 31.25  | 10.5                | 25.6             | 55.9      | 53.9         | 41.9      | 38.9         | 540.4                  | 67.0            | 48.3          |
| 62.5   | 15                  | 23.5             | 51.4      | 49.4         | 35.9      | 32.9         | 538.6                  | 65.6            | 42.3          |
| 100.0  | 19.1                | 22.1             | 48.3      | 46.3         | 31.8      | 28.8         | 537.6                  | 62.5            | 38.2          |
| 155.0  | 24.1                | 20.8             | 45.4      | 43.4         | 28.0      | 25.0         | 536.9                  | 59.6            | 34.4          |
| 200.0  | 27.6                | 20.0             | 43.8      | 41.8         | 25.8      | 22.8         | 536.5                  | 58              | 32.2          |
| 250.0  | 31.1                | 19.3             | 42.3      | 40.3         | 23.8      | 20.8         | 536.3                  | 56.5            | 30.2          |
| 300.0  | 34.3                | 18.8             | 41.1      | 39.3         | 22.3      | 19.3         | 536.1                  | 55.3            | 28.7          |
| 350.0  | 37.2                | 18.3             | 40.1      | 38.1         | 20.9      | 17.9         | 535.9                  | 54.3            | 27.3          |
| 400.0  | 40.1                | 17.9             | 39.3      | 37.3         | 19.8      | 16.8         | 535.8                  | 53.5            | 26.2          |
| 500.0  | 45.3                | 17.5             | 37.8      | 35.8         | 17.8      | 14.8         | 535.6                  | 52.0            | 24.2          |
| 550.0*   | 47.7                | 17.2             | 37.2      | 35.2         | N/A       | N/A          | N/A                    | N/A             | N/A           |
| 600.0*   | 50.1                | 16.9             | 36.6      | 34.6         | N/A       | N/A          | N/A                    | N/A             | N/A           |
| 650.0*   | 52.3                | 16.7             | 36.1      | 34.1         | N/A       | N/A          | N/A                    | N/A             | N/A           |

\*Frequencies beyond 500 MHz is reference only

**NOTE: UNLESS OTHERWISE SPECIFIED**

- Standard:
  - ANSI/TIA 568-C.2
  - ANSI/TIA 862 (Building Automation)
  - ISO/IEC 11801 Ed. 2.0 (Class A)
  - ICEA S-116-732
  - NEC/CEC Type CMP (NFPA 626)
  - RoHS Compliant Directive 2002/95/EC
  - UL 444
- Construction:
  - Size: 23 AWG
  - Conductor: Solid Bare Copper
  - Insulation: Fluoropolymer
  - Jacket: Low-Smoke, Flame-Retardant PVC -- Ø0.32" ±0.007 (8.1MM±0.2)
  - Rip Cord: Polyester
  - T Separator: Fluoropolymer
- Electrical/Physical Properties:
  - Conductor DCR: 9.38 OHMS/100M @20°C
  - DCR Unbalance: 3% Max
  - Capacitance Unbalance Pair/Ground: 330°/100M Max
  - Propagation Delay Skew: 25ns/100m Max
  - Nominal Velocity of Propagation (NVP): 70%
  - Installation Temperature: 32°-140°F
  - Operational Temperature: 4°-167°F
  - Bend Radius: 1.34"
- Packaging:
  - Bulk Package: 1000 Feet/Box
  - Reel Size: 17.3"W X 13.0"H
  - Weight: 57.5 lbs.

