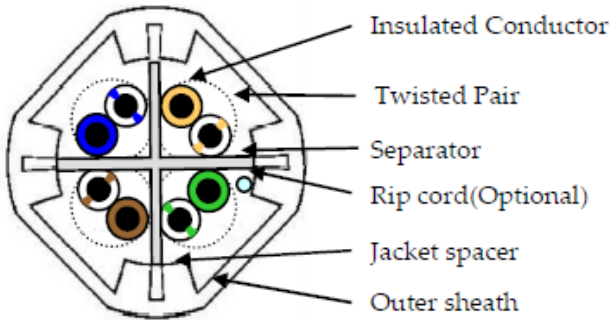


# Category 6A (10G) CMP UTP 4 Pair Cable



### Description

**23 AWG CAT6A Plenum, High-Performance Data Cable**

### Applicable Standards

- ETL Listed Type CMP
- C(ETL) listed FT6
- TIA - 568-B.2-10, and ISO/IEC 11801
- Alien Crosstalk and ROHS Compliant
- ATM 155 Mbps
- 10/100/1000/10G Base-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps TP-PMD
- ISDN, ADSL
- ATM LAN 1.2G
- Horizontal Distribution & Backbone Cabling

### Physical Characteristics

|                           |                   |
|---------------------------|-------------------|
| Number of Conductor Pairs | 4                 |
| Size                      | 23 AWG            |
| Stranding                 | Solid             |
| Conductor Material        | Solid Bare Copper |
| Shield Material           | Unshielded        |
| Rip Cord                  | Yes               |
| Insulation Material       | FEP               |
| Insulation Diameter       | 0.041 in.         |
| Jacket Material           | Plenum Rated PVC  |
| Jacket Diameter           | 0.3543 in.        |
| Jacket Spacer Thickness   | 0.0393 in.        |
| Outer Sheath Thickness    | .0177 in.         |
| Nominal Weight            | 54 lbs.           |

### Color Code

|        |                |        |
|--------|----------------|--------|
| Pair 1 | White / Blue   | Blue   |
| Pair 2 | White / Orange | Orange |
| Pair 3 | White / Green  | Green  |
| Pair 4 | White / Brown  | Brown  |

### Cable Marking

XXXXXX 23AWG 4 PR UTP CMP 75C C(UL)US VERIFIED (UL)  
CATEGORY 6A ANSI/TIA-568-C.2 0000FT

### Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) | Return loss (dB/100m) | NEXT (dB/100m)     | PS-NEXT (dB)         |
|-----------------|-----------------------|-----------------------|--------------------|----------------------|
| 1               | 2.1                   | 20.0                  | 74.3               | 72.3                 |
| 4               | 3.8                   | 23.0                  | 65.3               | 63.3                 |
| 8               | 5.3                   | 24.5                  | 60.8               | 58.8                 |
| 10              | 5.9                   | 25.0                  | 59.3               | 57.3                 |
| 16              | 7.5                   | 25.0                  | 56.2               | 54.2                 |
| 20              | 8.4                   | 25.0                  | 54.8               | 52.8                 |
| 25              | 9.4                   | 24.3                  | 53.3               | 51.3                 |
| 31.25           | 10.5                  | 23.6                  | 51.9               | 49.9                 |
| 62.5            | 15.0                  | 21.5                  | 47.4               | 45.4                 |
| 100             | 19.1                  | 20.1                  | 44.3               | 42.3                 |
| 200             | 27.6                  | 18.0                  | 39.8               | 37.8                 |
| 250             | 31.1                  | 17.3                  | 38.3               | 36.3                 |
| 300             | 34.3                  | 16.8                  | 37.1               | 35.1                 |
| 400             | 40.1                  | 15.9                  | 35.3               | 33.3                 |
| 500             | 45.3                  | 15.2                  | 33.8               | 31.8                 |
| Frequency (MHz) | ELFEXT (dB/100m)      | PS-ELFEXT (dB/100m)   | PS-ANEXT (dB/100m) | PS-AELFEXT (dB/100m) |
| 1               | 67.8                  | 64.8                  | 67.0               | 67.0                 |
| 4               | 55.8                  | 52.8                  | 67.0               | 66.2                 |
| 8               | 49.7                  | 46.7                  | 67.0               | 60.1                 |
| 10              | 47.8                  | 44.8                  | 67.0               | 56.2                 |
| 16              | 43.7                  | 40.7                  | 67.0               | 54.1                 |
| 20              | 41.8                  | 38.8                  | 67.0               | 52.2                 |
| 25              | 39.8                  | 36.8                  | 67.0               | 50.2                 |
| 31.25           | 37.9                  | 34.9                  | 67.0               | 48.3                 |
| 62.5            | 31.9                  | 28.9                  | 65.6               | 42.3                 |
| 100             | 27.8                  | 24.8                  | 62.5               | 38.2                 |
| 200             | 21.8                  | 18.8                  | 58.0               | 32.2                 |
| 250             | 19.8                  | 16.8                  | 56.5               | 30.2                 |
| 300             | 18.3                  | 15.3                  | 55.3               | 28.7                 |
| 400             | 15.8                  | 12.8                  | 53.5               | 26.2                 |
| 500             | 13.8                  | 10.8                  | 52.0               | 24.2                 |

\* Values above 250MHz are information only

### Electrical Characteristics

|  |                           |
|--|---------------------------|
| DC Resistance                          | 9.38 Ω / 100 Meters       |
| DC Resistance Unbalanced               | 5%                        |
| Mutual Capacitance                     | 5.6 nF / 100 Meters       |
| Capacitance Unbalance (Pair to Ground) | 330 pF / 100 Meters       |
| Characteristic Impedance               | 100 ± 15 Ω                |
| Delay Skew                             | 45 nS / 100 Meters        |
| Temperature Rating                     | Installation: 0 to + 60°C |
|  | Storage: -20°C to + 80°C  |
| Tensile Strength                       | Before: > = 13.8 Mpa      |
| Elongation                             | Aging: > = 100%           |
| Aging Condition                        | 100°C x 168 hours         |
|  | After: > = 85% of unaged  |
|  | Aging: > = 50% of unaged  |

### Part Numbers

| Part Number | Color | Put-up      |
|-------------|-------|-------------|
| 6A04UPBL2   | Blue  | 1,000' Reel |