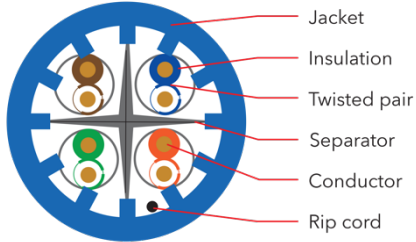


# CAT 6A UTP 10G RISER (CMR) 23/4 UNSHIELDED FT4 CABLE

## Cable Detail



## Applicable Standards

- C(ETL) listed FT4 CMR
- C(ETL)US Verified to TIA-568-C.2
- RoHS Compliant



## Physical Characteristics

|                        |                          |
|------------------------|--------------------------|
| Conductor Material     | Solid Bare Copper        |
| Number of Conductors   | 4                        |
| AWG                    | 23 AWG                   |
| Stranding              | Solid                    |
| Insulation Material    | HDPE                     |
| Overall Diameter       | 0.04 in. $\pm$ 0.0002 in |
| Average Thickness      | 0.0086 in                |
| Jacket Material        | Flame Retardant PVC      |
| Average Wall Thickness | 0.022 in.                |
| Nominal Outer Diameter | 0.3 in. $\pm$ 0.008 in.  |
| Nominal Weight         | 51 lbs.                  |
| Shielding (Y/N)        | No                       |
| Ripcord (Y/N)          | Yes                      |
| Separator (Y/N)        | Yes                      |

## Mechanical Characteristics

|                   |              |                      |
|-------------------|--------------|----------------------|
| Temperature Range | Installation | 0°C to + 75°C        |
|                   | Operating    | -20°C to + 75°C      |
| Tensile Strength  | Before       | $\geq$ 13.8 Mpa      |
| Elongation        | Aging        | $\geq$ 100%          |
| Aging Condition   |              | 100°C x 168 hours    |
|                   | After        | $\geq$ 85% of unaged |
|                   | Aging        | $\geq$ 50% of unaged |

## Insulation Colors

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

|                  |                                                      |              |
|------------------|------------------------------------------------------|--------------|
| Part Numbers     | Jacket Color                                         | Package      |
| <b>6A04URXX3</b> | White, Grey, Blue, Green, Yellow, Red, Purple, Black | 1000FT / RIB |

## Electrical Characteristics

|                        |                                  |
|------------------------|----------------------------------|
| DC Resistance          | 9.38 $\Omega$ / 100m Max. @ 20°C |
| Resistance Unbalanced  | 5% Max. @ 20°C                   |
| Capacitance Unbalance  | 330 pF / 100m Max. @ 20°C        |
| Mutual Capacitance     | 5.6 nF / 100m Max. @ 20°C        |
| Delay Skew             | 45 nS / 100m Max. @ 20°C         |
| Nominal of Propagation | 69%                              |

## Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) Max. | Return loss (dB) Min. | NEXT (dB) Min. | PS-NEXT (dB) Min. |
|-----------------|----------------------------|-----------------------|----------------|-------------------|
| 1               | 2.08                       | 20.00                 | 74.30          | 72.30             |
| 4               | 3.80                       | 23.01                 | 65.27          | 63.27             |
| 8               | 5.31                       | 24.52                 | 60.75          | 58.75             |
| 10              | 5.93                       | 25.00                 | 59.30          | 57.30             |
| 16              | 7.49                       | 25.00                 | 56.24          | 54.24             |
| 20              | 8.38                       | 25.00                 | 54.78          | 52.78             |
| 25              | 9.38                       | 24.32                 | 53.33          | 51.33             |
| 31.25           | 10.50                      | 23.64                 | 51.88          | 49.88             |
| 62.5            | 14.99                      | 21.54                 | 47.36          | 45.36             |
| 100             | 19.14                      | 20.11                 | 44.30          | 42.30             |
| 200             | 27.58                      | 18.00                 | 39.78          | 37.78             |
| 250             | 31.07                      | 17.32                 | 38.33          | 36.33             |
| 300             | 34.27                      | 16.77                 | 37.14          | 35.14             |
| 400             | 40.05                      | 15.89                 | 35.27          | 33.27             |
| 500             | 45.26                      | 15.21                 | 33.82          | 31.82             |
| 600             | 50.05                      | 14.66                 | 32.63          | 30.63             |
| 625             | 51.20                      | 14.54                 | 32.36          | 30.36             |
| 650             | 52.33                      | 14.42                 | 32.11          | 30.11             |
| 700             | 54.53                      | 14.19                 | 31.62          | 29.62             |
| 750             | 56.68                      | 13.98                 | 31.17          | 29.17             |

| Frequency (MHz) | ELFEXT (dB/100m) Min. | PS-ELFEXT (dB) Min. | PS-ANEXT (dB/100m) | PS-AELFEXT (dB/100m) |
|-----------------|-----------------------|---------------------|--------------------|----------------------|
| 1               | 67.80                 | 64.80               | 67.00              | 67.00                |
| 4               | 55.76                 | 52.76               | 67.00              | 66.16                |
| 8               | 49.74                 | 46.74               | 67.00              | 60.14                |
| 10              | 47.80                 | 44.80               | 67.00              | 58.20                |
| 16              | 43.72                 | 40.72               | 67.00              | 54.12                |
| 20              | 41.78                 | 38.78               | 67.00              | 52.18                |
| 25              | 39.84                 | 36.84               | 67.00              | 50.24                |
| 31.25           | 37.90                 | 34.90               | 67.00              | 48.30                |
| 62.5            | 31.88                 | 28.88               | 65.56              | 42.28                |
| 100             | 27.80                 | 24.80               | 62.50              | 38.20                |
| 200             | 21.78                 | 18.78               | 57.98              | 32.18                |
| 250             | 19.84                 | 16.84               | 56.53              | 30.24                |
| 300             | 18.26                 | 15.26               | 55.34              | 28.66                |
| 400             | 15.76                 | 12.76               | 53.47              | 26.16                |
| 500             | 13.82                 | 10.82               | 52.02              | 24.22                |
| 600             | 12.24                 | 9.24                | 50.83              | 22.64                |
| 625             | 11.88                 | 8.88                | 50.56              | 22.28                |
| 650             | 11.54                 | 8.54                | 50.31              | 21.94                |
| 700             | 10.90                 | 7.90                | 49.82              | 21.30                |
| 750             | 10.30                 | 7.30                | 49.37              | 20.70                |

\* Values above provided are for information only.

## Cable Marking

XXXXXXX CATEGORY 6A 10G 23AWG 4PR UTP CMR FT4 75C C(ETL)US  
VERIFIED (ETL) ANSI/TIA-568-C.2 \*\*\*\*FT

