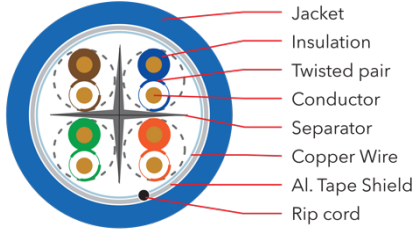


CAT 6A FTP 10G RISER (CMR) 23/4 SHIELDED FT4 CABLE



Cable Detail



Applicable Standards

- C(UL) listed FT4 CMR
- C(UL)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 | 0.041 in |
| Average Thickness | 0.0106 in |
| Jacket Material | Flame Retardant PVC |
| Jacket Diameter | 0.3153 in. |
| Spacer Thickness | 0.0393 in. |
| Outer Sheath Thickness | 0.0177 in. |
| Nominal Weight | 41 lbs. |
| Shielding (Y/N) | Yes (AL-Foil) |
| 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 | ≥ 13.8 Mpa |
| Elongation | Aging | ≥ 100% |
| | Aging Condition | 100°C x 168 hours |
| | | After |
| | Aging | ≥ 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 |
|------------------|--------------|---------------|
| 6A04FRBL2 | Blue | 1000FT / Reel |

Electrical Characteristics

| | |
|------------------------|---------------------------|
| DC Resistance | 9.38 Ω / 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

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

