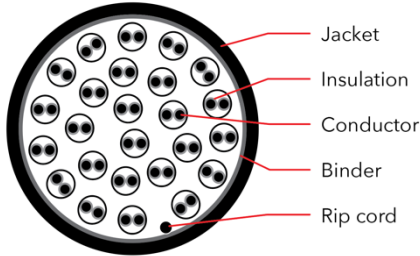


CAT 5E 350MHz UTP RISER (CMR) 24AWG 25PR CABLE



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 | 25 |
| AWG | 24 AWG |
| Stranding | Solid |
| Insulation Material | HDPE |
| Overall Diameter | 0.0354 in. ± 0.0002 in |
| Average Thickness | 0.00787 in |
| Jacket Material | Flame Retardant PVC |
| Average Wall Thickness | 0.043 in. ± 0.0002 in. |
| Nominal Outer Diameter | 0.492 in. ± 0.0002 in. |
| Assembly Diameter | 0.413 in. |
| Twisted Pair Diameter | 0.0709 in. |
| Nominal Weight | 140 lbs. |
| Shielding (Y/N) | No |
| Ripcord (Y/N) | Yes |
| Separator (Y/N) | No |

Mechanical Characteristics

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

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 | 2.0 | 20.0 | 65.3 | 62.3 |
| 4 | 4.1 | 23.0 | 56.3 | 53.3 |
| 8 | 5.8 | 24.5 | 51.8 | 48.8 |
| 10 | 6.5 | 25.0 | 50.3 | 47.3 |
| 16 | 8.2 | 25.0 | 47.3 | 44.3 |
| 20 | 9.3 | 25.0 | 45.8 | 42.8 |
| 25 | 10.4 | 24.3 | 44.3 | 41.3 |
| 31.25 | 11.7 | 23.6 | 42.9 | 39.9 |
| 62.5 | 17.0 | 21.5 | 38.4 | 35.4 |
| 100 | 22.0 | 20.1 | 35.3 | 32.3 |

| Frequency (MHz) | ELFEXT (dB/100m) Min. | PS-ELFEXT (dB) Min. | Delay (ns/100m) Max. | ACR Typ (dB) |
|-----------------|-----------------------|---------------------|----------------------|--------------|
| 1 | 63.8 | 60.8 | 570.0 | 67.3 |
| 4 | 51.7 | 48.7 | 552.0 | 56.2 |
| 8 | 45.7 | 42.7 | 546.7 | 50.0 |
| 10 | 43.8 | 40.8 | 545.4 | 47.8 |
| 16 | 39.7 | 36.7 | 543.0 | 44.0 |
| 20 | 37.7 | 34.7 | 542.0 | 41.5 |
| 25 | 35.8 | 32.8 | 541.2 | 38.9 |
| 31.25 | 33.9 | 30.9 | 540.4 | 36.2 |
| 62.5 | 27.8 | 24.8 | 538.6 | 27.4 |
| 100 | 23.8 | 20.8 | 537.6 | 19.3 |

* Values above 100MHz are information only.

Insulation Colors

| | | | |
|---------|----------------|---------|-----------------|
| Pair 1 | Blue - White | Pair 14 | Brown - Black |
| Pair 2 | Orange - White | Pair 15 | Gray - Black |
| Pair 3 | Green - White | Pair 16 | Blue - Yellow |
| Pair 4 | Brown - White | Pair 17 | Orange - Yellow |
| Pair 5 | Gray - White | Pair 18 | Green - Yellow |
| Pair 6 | Blue - Red | Pair 19 | Brown - Yellow |
| Pair 7 | Orange - Red | Pair 20 | Gray - Yellow |
| Pair 8 | Green - Red | Pair 21 | Blue - Violet |
| Pair 9 | Brown - Red | Pair 22 | Orange - Violet |
| Pair 10 | Gray - Red | Pair 23 | Green - Violet |
| Pair 11 | Blue - Black | Pair 24 | Brown - Violet |
| Pair 12 | Orange - Black | Pair 25 | Gray - Violet |
| Pair 13 | Green - Black | | |

| Part Numbers | Jacket Color | Package |
|------------------|--------------|---------------|
| 5E25URGY2 | Grey | 1000FT / Reel |

Cable Marking

XXXXXXX CATEGORY 5E 350MHZ 24AWG 25PR UTP CMR 75C FT4
C(ETL)US VERIFIED (ETL) ANSI/TIA-568-C.2 *****FT

