



DESCRIPTION

• 24 AWG/25 Pair unshielded twisted pair 1000' feet solid copper on wood reels. Cable comes with standard ripcord for stripping jacket and it is marked every two feet so one can see how much cable is left in the box.

FEATURES AND BENEFITS

- Used for Voice communications
- Jacket: Flame - retardant PVC / Sequential footage markings
- Rip Cord is applied longitudinally under jacket
- Verified by third-party for guaranteed performance

APPLICATIONS

- Voice/Telephone/Fast Ethernet
- 10 Base - T
- 100 Base - T4
- 100 Base - X 100 Base - VG
- 4/16 Mbps Token Ring ANSI X3T9.5 TP - PMD (FDDI)
- ATM PMD 155 Mbps

STANDARD COMPLIANCES

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class EI)
- ICEA 8-102-700 (Category 6 or 5E)
- REACH Compliant
- CPR Compliant (Fully Comply to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

PHYSICAL PROPERTIES

| | CMR (Non-Plenum) |
|------------------------------|-------------------|
| Conductor | Solid Bare Copper |
| Conductor Diameter (mm) | 0.500 |
| Average Thickness (±0.03mm) | 0.16 |
| Minimum Point Thickness (mm) | 0.15 |
| Unit Lay Length (mm) | 500 underneath |
| Color Tape Lay Length (mm) | <150 |
| Maximum Pulling Force (lbs) | 25 |
| Twisting Lay Length | 80 underneath |
| 100P Cabling Lay Length (mm) | 800 underneath |
| Installation Dia (±0.05mm) | 800 underneath |

| JACKET | | CMR (Non-Plenum) |
|------------------------------|------------------------|------------------|
| Filler | | Without |
| Average Thickness (±0.1mm) | | 0.80 |
| Minimum Point Thickness (mm) | | 0.65 |
| Before Aging | Tensile Strength (Mpa) | ≥13.8 |
| | Elongation (%) | ≥100 |
| After Aging | Tensile Strength (Mpa) | ≥85% of unaged |
| | Elongation (%) | ≥50% of unaged |
| Cold Bend (No Crack) | | -20±2°Cx4hrs |
| Temperature Rating | | -20°C to +75°C |
| Max Pull Strength | | 200N |
| Aging Condition (°Cxhrs) | | 100x240 |
| Standard Color | | Gray |

25 PAIR COLOR CODE

| | | |
|---------|----|----|
| Pair 1 | O | W |
| Pair 2 | OR | W |
| Pair 3 | V | W |
| Pair 4 | BN | W |
| Pair 5 | G | W |
| Pair 6 | O | R |
| Pair 7 | OR | R |
| Pair 8 | V | R |
| Pair 9 | BN | R |
| Pair 10 | G | R |
| Pair 11 | O | B |
| Pair 12 | OR | B |
| Pair 13 | V | B |
| Pair 14 | BN | B |
| Pair 15 | G | B |
| Pair 16 | O | Y |
| Pair 17 | OR | Y |
| Pair 18 | V | Y |
| Pair 19 | BN | Y |
| Pair 20 | G | Y |
| Pair 21 | O | VT |
| Pair 22 | OR | VT |
| Pair 23 | V | VT |
| Pair 24 | BN | VT |
| Pair 25 | G | VT |

ELECTRICAL CHARACTERISTICS

| | |
|-------------------------------------|----------------|
| Elongation of Conductor | Min 15% |
| Elongation of Insulation | Min 300% |
| Tensile Strength of Insulation | Min 6Mpa |
| Shrinkage of Insulation | Max 5% |
| Elongation of Jacket (unaged) | Min 200% |
| Tensile strength of Jacket (unaged) | Min 12Mpa |
| Capacitance | 56pF/km |
| Capacitance unbalance | 500pF/100km |
| Max. Conductor DC Resistance 20°C | ≤93.8 |
| Resistance Unbalance (%) | ≤5 |
| Insulation Resistance | 5000MΩ-km |
| Dielectric Strength | DC.1.5kv, 7min |

JACKETS ABBREVIATION

| | | |
|--------|----|---|
| Black | B | Last alphabetical character of each part number indicates the color code that the Jacket is available in. For example Part # 6CMR-244Bx ("x" indicates all the colors to the left are available for this product. |
| White | W | |
| Gray | G | |
| Blue | O | |
| Yellow | Y | |
| Green | V | |
| Orange | OR | |
| Purple | P | |
| Red | R | |
| Pink | PI | |

1000' Wood Reel
Weight: 100 lbs.

CAT 3 U/UTP CMR 25PAIR/24AWG ELECTRICAL SPECIFICATION

| FREQUENCY (MHz) | ATTENUATION (DB/100m) | NEXT (DB) | SRL (DB) | IMPEDANCE (DB/100m) |
|-----------------|-----------------------|-----------|----------|---------------------|
| 0.772 | 2.2 | 43 | 12 | 100 ± 15 |
| 1 | 2.6 | 41 | 12 | 100 ± 15 |
| 4 | 5.6 | 32 | 12 | 100 ± 15 |
| 8 | 8.5 | 28 | 12 | 100 ± 15 |
| 10 | 9.7 | 26 | 12 | 100 ± 15 |
| 16 | 13.1 | 23 | 10 | 100 ± 15 |

All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice

Toll Free: (866) 945-5051
Local: (770) 945-5051
Fax: (770) 945-9582
www.commoditycables.com

