

CAT 3 U/UTP CMR 50PAIR/24AWG

PART NO. 3CMR2450RX



DESCRIPTION

- 24 AWG/50 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) | 0.50 |
| 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) | |
| Twisting Lay Length | 80 underneath |
| 100P Cabling Lay Length (mm) | 800 underneath |
| Installation Dia (±0.05mm) | 0.83 |

| JACKET | | CMR (Non-Plenum) |
|------------------------------|------------------------|------------------|
| Filler | | Without |
| Average Thickness (±0.1mm) | | 0.80 |
| Minimum Point Thickness (mm) | | 0.75 |
| 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 |

| 50 PAIR | | | COLOR CODE | | |
|---------|----|----|------------|----|----|
| Pair 1 | O | W | Pair 26 | O | W |
| Pair 2 | OR | W | Pair 27 | OR | W |
| Pair 3 | V | W | Pair 28 | V | W |
| Pair 4 | BN | W | Pair 29 | BN | W |
| Pair 5 | G | W | Pair 30 | G | W |
| Pair 6 | O | R | Pair 31 | O | R |
| Pair 7 | OR | R | Pair 32 | OR | R |
| Pair 8 | V | R | Pair 33 | V | R |
| Pair 9 | BN | R | Pair 34 | BN | R |
| Pair 10 | G | R | Pair 35 | G | R |
| Pair 11 | O | B | Pair 36 | O | B |
| Pair 12 | OR | B | Pair 37 | OR | B |
| Pair 13 | V | B | Pair 38 | V | B |
| Pair 14 | BN | B | Pair 39 | BN | B |
| Pair 15 | G | B | Pair 40 | G | B |
| Pair 16 | O | Y | Pair 41 | O | Y |
| Pair 17 | OR | Y | Pair 42 | OR | Y |
| Pair 18 | V | Y | Pair 43 | V | Y |
| Pair 19 | BN | Y | Pair 44 | BN | Y |
| Pair 20 | G | Y | Pair 45 | G | Y |
| Pair 21 | O | VT | Pair 46 | O | VT |
| Pair 22 | OR | VT | Pair 47 | OR | VT |
| Pair 23 | V | VT | Pair 48 | V | VT |
| Pair 24 | BN | VT | Pair 49 | BN | VT |
| Pair 25 | G | VT | Pair 50 | 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

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