



DESCRIPTION

- 23 AWG 4 Pair F/UTP Category 6A cable tested to 550Mhz premium grade, high performance for top level network cabling for maximum headroom and bandwidth. Available in wood reel for easier installation.

FEATURES AND BENEFITS

- Cross web filler for enhanced performance
- Rugged jacket for outside plant applications
- UV resistant polyethylene jacket
- Gel filled core
- Sequential footage markings
- Verified by third-party for guaranteed performance

APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-Tx
10Base-T, PoE+
- ANSI/TIA 854: 1000Base-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

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 Complies to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

| | | | |
|----------------------------------|---|-----------------------------------|------------|
| Conductor | Material | Solid Bare copper | |
| | Nominal O.D (mm) | 4X2X0.57(+/-0.005)mm | |
| Insulation | Material | HDPE | |
| | Diameter (± 0.05mm) | 1.12+/-0.03 mm | |
| Shield Material | | Aluminum Foil+Drain wire | |
| Construction | | Direct Burial/Gel Filled/Shielded | |
| Sheath | Thickness | 0.65±0.05 mm | |
| | External O.D. | 2.60X8.0±0.2mm | |
| | Surface | SMOOTH | |
| | Material | LLDPE | |
| | Color | Per request | |
| Surface Printing | Letter height | 3.5±0.3mm | |
| | Color | WHITE | |
| | Print error & Space | ≤ ± 0.5%, 2ft | |
| Packing | 1000 FT/DRUM | | |
| Weight | 49 lbs/Drum | | |
| Packing length | 1000ft ± 4ft | | |
| Rip Cord: | Yes | Drain wire | 1/0.4mm TC |
| Voltage Rating (Max) | | DC 300V | |
| Sheath Physical Properties | Before Aging | Tesile Strength (Mpa) | ≥13.0 |
| | | Elongation (%) | ≥300 |
| | Aging Period(°CXhrs) | 100°C X 24h X 7d | |
| | After Aging Elongation (%) | ≥75 | |
| | Cold bend(-40±2°CX4h) 8xCable O.D. | No visible cracks | |
| Electrical Characteristics(20°C) | Capacitance Unbalance (pF/100m) | | ≤330 |
| | DC Conductor Resistance Unbalance (%) max | | 5.0 |
| | DC REsistance (Ω/1Km) max | | 90 |
| | Impedance (Ω) | 1.0-250.0 MHz | 100±15 |
| | | 250.0-600.0 MHz | 100±25 |
| | NVP | 68% | |
| Capacitance Unbalance (pF/100m) | | ≤330 | |
| Temperature Range | | -40°C to 75°C | |

1000' Wood Reel
Weight: 49 lbs.

AVAILABLE CATEGORY 6 (PART NUMBERS)

| PVC | Plenum | Shielded | Shielded Plenum | Direct Burial | Shielded Direct Burial |
|-----------|-----------|-----------|-----------------|---------------|------------------------|
| 6CMR244Bx | 6CMP234Bx | 6SHDCMRRx | 6SHDCMPRx | 6OUT234RB | 6OUTGSHDRB |
| 6CMR234Bx | | | | 6OUTG234RB | 6OUTWSHDRB |
| | | | | 6OUTW234RB | |
| | | | | 6OUTA234RB | |

*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
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PART NO. 6AOUTGSHDRX

ELECTRICAL PERFORMANCE

ACRF - Attenuation to Crosstalk Ratio - Far End (dB/100m)

NEXT - Near End Crosstalk (dB/100m)

ACR - Attenuation to Crosstalk Ratio (dB/100m)

PSNEXT - Power Sum Near End Crosstalk (dB/100m)

ELFEXT - Equal Level Far End Crosstalk (dB/100m)

PSELFEXT - Power Sum Equal Level Far End Crosstalk (dB/100m)

RL - Return Loss (dB)

TCL - Transverse Conversion Loss (dB/100m)

ATT - Attenuation (dB/100m)

| FREQUENCY (MHz) | ATT ≤dB | RL ≥(dB) | Next ≥(dB) | PHASE DE- LAY ≤ns | PSNEXT ≥(dB) | ELFEXT ≥dB | PSELFEXT ≥dB |
|--------------------|------------|-------------|---------------|----------------------|-----------------|---------------|-----------------|
| 1 | 2.1 | 20 | 75.3 | 570.0 | 72.3 | 68.0 | 65.0 |
| 4 | 3.8 | 23.0 | 66.3 | 552.0 | 63.3 | 56.0 | 53.0 |
| 8 | 5.3 | 24.5 | 61.8 | 546.7 | 58.8 | 49.9 | 46.9 |
| 10 | 5.9 | 25.0 | 60.3 | 545.4 | 57.3 | 48.0 | 45.0 |
| 16 | 7.5 | 25.0 | 57.2 | 543.0 | 54.2 | 43.9 | 40.9 |
| 20 | 8.4 | 25.0 | 55.8 | 542.1 | 52.8 | 42.0 | 39.0 |
| 25 | 9.4 | 24.3 | 54.3 | 541.2 | 51.3 | 40.0 | 37.0 |
| 31.25 | 10.5 | 23.6 | 52.9 | 540.4 | 49.9 | 38.1 | 35.1 |
| 62.5 | 15.0 | 21.5 | 48.4 | 538.6 | 45.4 | 32.1 | 29.1 |
| 100 | 19.1 | 20.1 | 45.3 | 537.6 | 42.3 | 28.0 | 25.0 |
| 200 | 27.6 | 16.4 | 40.8 | 536.5 | 37.8 | 22.0 | 19.0 |
| 250 | 31.1 | 15.6 | 39.3 | 536.3 | 36.3 | 20.0 | 17.0 |
| 300 | 34.3 | 14.9 | 38.1 | 536.1 | 35.1 | 18.5 | 15.5 |
| 500 | 45.3 | 13.0 | 34.8 | 535.6 | 31.8 | 14.0 | 11.0 |
| 600 | 48.5 | 12.3 | 33.6 | 535.0 | 30.6 | 12.0 | 10.0 |

JACKETS ABBREVIATION

| | | |
|--------|----|--|
| Black | B | Last alphabetical character of each part number indicates the color code that the Jacket is available in. For example Part # 6CMR244Bx ("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 | |

| AVAILABLE JACKET COLORS | | |
|-------------------------|-----------------------|-------|
| STANDARD | BLACK | |
| SPECIAL | Per Customer Request* | |
| INSULATION COLORS | | |
| PAIR 1 | BLUE | WHITE |
| PAIR 2 | ORANGE | WHITE |
| PAIR 3 | GREEN | WHITE |
| PAIR 4 | BROWN | WHITE |

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