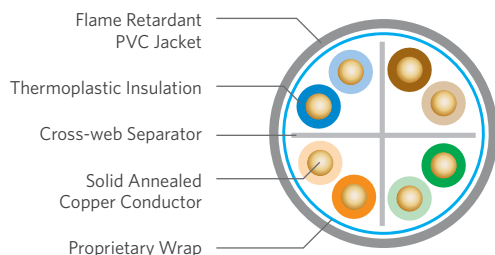


10Gain® Category 6A

CMR/CMP

MADE
IN THE USA

SPECIFICATIONS

| | |
|-------------------------------|--|
| Pair Count | 4 |
| Conductor | Solid annealed copper |
| AWG (mm) | 23 (0.57) |
| Insulation | CMR: Thermoplastic CMP: FEP |
| Insulation Colors | Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown |
| Separator | Cross-web |
| Core Wrap | Proprietary construction |
| Jacket | CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC |
| Characteristic Impedance Ohms | 100 ± 15 |
| Velocity of Propagation % | CMR: 66 CMP: 71 |
| Performance Compliance | UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568.2-D Article 800, NEC (NFPA 70) |
| NRTL Programs | UL Verified CAT 6A UL Listed CMR-LP (0.5) c(UL) Listed CMR UL Listed CMP-LP (0.5) c(UL) Listed CMP |
| Sustainability | UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant |

PRODUCT DESCRIPTION

This CAT 6A cable meets or exceeds all industry requirements including ANSI/TIA-568.2-D. The cable utilizes a proprietary core wrap which assures excellent alien crosstalk performance. This cable fully complies with UL 444 requirements for an unshielded twisted pair product.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4
- ATM and token ring
- Backward compatible to legacy protocols and applications
- HDBaseT Class A and B

FEATURES

- UL Certified Environmental Product Declaration (EPD)
- Health Product Declaration™ (HPD™)
- Multi-Attribute Certification by GreenCircle Certified, LLC
- Guaranteed 1 dB AXT margin
- UL Verified CAT 6A
- Tested to 650 MHz
- Nominal 0.285 (CMR)/0.275 (CMP) inch diameter
- Proprietary core wrap
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip™ circuit identification system

BENEFITS

- Contributes toward 1 LEED credit under the Material and Resources credit (MRc)
- Contributes toward 1 LEED credit under the MRc
- Offers an overview of the sustainability of a product, its packaging and manufacturing
- Guaranteed AXT performance in virtually any installation environment
- Assures consistent worry-free performance
- Assures ample bandwidth headroom
- Higher cable density, smaller bend radius and lowers installation costs
- Provides substantially more AXT protection without grounding or bonding
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS

| Listing | Part Number ¹ | Nominal Diameter in (mm) | Approx. Weight lbs/kft (kg/km) | Package | Packages per Pallet |
|---------|--------------------------|--------------------------|--------------------------------|------------------|---------------------|
| CMR | 6A-246-xA | 0.285 (7.24) | 31 (47) | 1,000' BrakeBox® | 12 |
| CMR | 6A-272-xA | 0.285 (7.24) | 31 (47) | 1,000' Reel | 20 |
| CMP | 6A-246-xB | 0.275 (6.99) | 34 (50) | 1,000' BrakeBox® | 12 |
| CMP | 6A-272-xB | 0.275 (6.99) | 34 (50) | 1,000' Reel | 20 |

JACKET COLORS

¹Replace "x" with: Blue = 2 Gray = 3 White = 4 Green = 5 Yellow = 6 Purple = 7 Red = 9 Orange = D

ELECTRICAL SPECIFICATIONS

| Frequency MHz | Insertion Loss @ 20°C Maximum dB/100 m | | NEXT Minimum dB/100 m | | ACR Minimum dB/100 m | | PSNEXT Minimum dB/100 m | | PSACR Minimum dB/100 m | |
|------------------|--|---------|--------------------------|---------|-------------------------|---------|----------------------------|---------|---------------------------|---------|
| | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical |
| 1 | 2.1 | 2.0 | 74.3 | 78.3 | 72.2 | 77.3 | 72.3 | 77.3 | 70.2 | 76.3 |
| 4 | 3.8 | 3.7 | 65.3 | 69.3 | 61.5 | 66.6 | 63.3 | 68.3 | 59.5 | 65.6 |
| 8 | 5.3 | 5.1 | 60.8 | 64.8 | 55.4 | 60.6 | 58.8 | 63.8 | 53.4 | 59.6 |
| 10 | 5.9 | 5.7 | 59.3 | 63.3 | 53.4 | 58.6 | 57.3 | 62.3 | 51.4 | 57.6 |
| 16 | 7.5 | 7.3 | 56.2 | 60.2 | 48.8 | 54.0 | 54.2 | 59.2 | 46.8 | 53.0 |
| 20 | 8.4 | 8.1 | 54.8 | 58.8 | 46.4 | 51.7 | 52.8 | 57.8 | 44.4 | 51.2 |
| 25 | 9.4 | 9.1 | 53.3 | 57.3 | 44.0 | 49.7 | 51.3 | 56.3 | 42.0 | 49.0 |
| 31.25 | 10.5 | 10.2 | 51.9 | 55.9 | 41.4 | 47.2 | 49.9 | 54.9 | 39.4 | 46.7 |
| 62.5 | 15.0 | 14.4 | 47.4 | 51.4 | 32.4 | 39.0 | 45.4 | 50.4 | 30.4 | 38.4 |
| 100 | 19.1 | 18.4 | 44.3 | 48.3 | 25.2 | 32.4 | 42.3 | 47.3 | 23.2 | 31.7 |
| 200 | 27.6 | 26.5 | 39.8 | 43.8 | 12.2 | 20.1 | 37.8 | 42.8 | 10.2 | 19.5 |
| 250 | 31.1 | 29.8 | 38.3 | 42.3 | 7.3 | 15.5 | 36.3 | 41.3 | 5.3 | 15.1 |
| 300 | 34.3 | 32.9 | 37.1 | 41.1 | 2.9 | 11.4 | 35.1 | 40.1 | 0.9 | 10.8 |
| 400 | 40.1 | 38.3 | 35.3 | 39.3 | | 4.6 | 33.3 | 38.3 | | 3.6 |
| 500 | 45.3 | 43.0 | 33.8 | 37.8 | | | 31.8 | 36.8 | | |
| 600 | | 47.5 | | 36.4 | | | | 35.6 | | |
| 650 | | 49.7 | | 35.9 | | | | 35.1 | | |
| 700 | | 51.4 | | 35.5 | | | | 34.6 | | |
| 750 | | 53.3 | | 35.1 | | | | 34.2 | | |

| Frequency MHz | Return Loss Minimum dB/100 m | | ACRF Minimum dB/100 m | | PSACRF Minimum dB/100 m | | PSANEXT Minimum dB/100 m | | PSAACRF Minimum dB/100 m | |
|------------------|---------------------------------|---------|--------------------------|---------|----------------------------|---------|-----------------------------|---------|-----------------------------|---------|
| | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical |
| 1 | 20.0 | 22.0 | 67.8 | 73.8 | 64.8 | 70.8 | 68.0 | 96.5 | 68.0 | 80.0 |
| 4 | 23.0 | 25.0 | 55.8 | 61.8 | 52.8 | 58.8 | 68.0 | 87.5 | 67.2 | 79.2 |
| 8 | 24.5 | 26.5 | 49.7 | 55.7 | 46.7 | 52.7 | 68.0 | 83.0 | 61.1 | 73.1 |
| 10 | 25.0 | 27.0 | 47.8 | 53.8 | 44.8 | 50.8 | 68.0 | 81.5 | 59.2 | 71.2 |
| 16 | 25.0 | 27.0 | 43.7 | 49.7 | 40.7 | 46.7 | 68.0 | 80.0 | 55.1 | 67.1 |
| 20 | 25.0 | 27.0 | 41.8 | 47.8 | 38.8 | 44.8 | 68.0 | 80.0 | 53.2 | 65.2 |
| 25 | 24.3 | 26.3 | 39.8 | 45.8 | 36.8 | 42.8 | 68.0 | 80.0 | 51.2 | 63.2 |
| 31.25 | 23.6 | 25.6 | 37.9 | 43.9 | 34.9 | 40.9 | 68.0 | 80.0 | 49.3 | 61.3 |
| 62.5 | 21.5 | 23.5 | 31.9 | 37.9 | 28.9 | 34.9 | 66.6 | 78.6 | 43.3 | 55.3 |
| 100 | 20.1 | 22.1 | 27.8 | 33.8 | 24.8 | 30.8 | 63.5 | 75.5 | 39.2 | 51.2 |
| 200 | 18.0 | 20.0 | 21.8 | 27.8 | 18.8 | 24.8 | 59.0 | 71.0 | 33.2 | 45.2 |
| 250 | 17.3 | 19.3 | 19.8 | 25.8 | 16.8 | 22.8 | 57.5 | 69.5 | 31.2 | 43.2 |
| 300 | 16.8 | 18.8 | 18.3 | 24.3 | 15.3 | 21.3 | 56.3 | 68.3 | 29.7 | 41.7 |
| 400 | 15.9 | 17.9 | 15.8 | 21.8 | 12.8 | 18.8 | 55.3 | 66.5 | 28.2 | 39.2 |
| 500 | 15.2 | 17.2 | 13.8 | 19.8 | 10.8 | 16.8 | 54.0 | 65.0 | 27.2 | 37.2 |
| 600 | | 16.7 | | 18.2 | | 15.2 | 51.0 | 63.8 | 25.2 | 35.6 |
| 650 | | 16.4 | | 17.5 | | 14.5 | | 63.3 | | 34.9 |
| 700 | | 16.2 | | 16.9 | | 13.9 | | | | |
| 750 | | 16.0 | | 16.3 | | 13.3 | | | | |

SUSTAINABILITY LEADERSHIP



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