



PRODUCT SPECIFICATIONS

CONVERGENT
CONNECTIVITY
TECHNOLOGY



CAT6ENP4AM

Description:

23AWG Non-Plenum, unshielded four twisted pairs, Category 6 Horizontal Cable. Extended testing to 550 MHz

Ratings/Approvals:

NEC Article 800, UL 1666:CMR Rating FT4, ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6, C(ETL)US, RoHS Compliant

Applications:

Supports all Gigabit Ethernet/1000BASE-T/IEEE 802.3ab, ATM up to 155 Mbps, 100 Mbps Fast Ethernet 100BASE-T/IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet 10BASE-T/IEEE 802.3, 4 & 16 Mbps Token Ring/IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps, 1.2, 2.4 and 4.8 Gbps

CONSTRUCTION

| | |
|--|--------------------------|
| Conductor: | 23 AWG Solid Bare Copper |
| Number of Conductors or Pairs: | 4 Pair |
| Jacket Material: | Polyvinyl Chloride |
| Nominal Overall Cable Diameter: | 0.240 in. |
| Approximate Cable Weight: | 34 lb/1,000 ft. |

ELECTRICAL & PHYSICAL PROPERTIES

| | |
|----------------------------------|--|
| Temperature Rating: | Installation: 0°C to 50°C Operation: -2°C to 60°C |
| Velocity of Propagation: | 70% |
| Mutual Capacitance: | 14 pF/ft Nominal |
| Capacitance Unbalance: | 330 pF/ft maximum |
| Maximum Conductor D.C.R.: | 28.6Ω/1,000 ft |
| Maximum D.C.R. Unbalance: | 3% |
| Maximum Delay Skew: | 18 ns/100m |
| Characteristic Impedance: | From 0.772 MHz - 100 MHz 100 ± 15% From 100 MHz - 250 MHz 100 ± 22% From 201 MHz - 550 MHz 100 ± 32% |
| Minimum bend radius: | 1.0 in. |
| Insulation Colors: | Blue paired with White/Blue Orange paired with White/Orange Green paired with White/Green Brown paired with White/Brown |

Issue Date: July '14 Revision: 1

THE STRONGEST LINK IN YOUR SUPPLY CHAIN



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ELECTRICAL CHARACTERISTICS

| Frequency | Return Loss | Insertion Loss | NEXT | PS-NEXT | ELFEXT | PS-ELFEXT | ACR | PS-ACR |
|-----------|-------------|----------------|----------|----------|----------|-----------|----------|----------|
| MHz | dB(100M) | dB(100M) | dB(100M) | dB(100M) | dB(100M) | dB(100M) | dB(100M) | dB(100M) |
| | Minimum | Maximum | Minimum | Minimum | Minimum | Minimum | Minimum | Minimum |
| 1 | 20.0 | 2.0 | 80.3 | 78.3 | 73.8 | 70.8 | 78.3 | 76.3 |
| 4 | 23.0 | 3.8 | 71.3 | 69.3 | 61.8 | 58.8 | 67.5 | 65.5 |
| 10 | 25.0 | 6.0 | 65.3 | 63.3 | 53.8 | 50.8 | 59.3 | 57.3 |
| 16 | 25.0 | 7.6 | 62.2 | 60.2 | 49.7 | 46.7 | 54.6 | 52.6 |
| 20 | 25.0 | 8.5 | 60.8 | 58.8 | 47.8 | 44.8 | 52.3 | 50.3 |
| 31.25 | 23.6 | 10.7 | 57.9 | 55.9 | 43.9 | 40.9 | 47.2 | 45.2 |
| 62.5 | 21.5 | 15.4 | 53.4 | 51.4 | 37.9 | 34.9 | 38.0 | 36.0 |
| 100 | 20.1 | 19.8 | 50.3 | 48.3 | 33.8 | 30.8 | 30.5 | 28.5 |
| 200 | 18.0 | 29.0 | 45.8 | 43.8 | 27.8 | 24.8 | 16.8 | 14.9 |
| 250 | 17.3 | 32.8 | 44.3 | 42.3 | 25.8 | 22.8 | 11.5 | 9.5 |
| 300 | 16.8 | 36.4 | 43.1 | 41.1 | 24.3 | 21.3 | | |
| 350 | 16.3 | 39.8 | 42.1 | 40.1 | 22.9 | 19.9 | | |
| 400 | 15.9 | 43.0 | 41.3 | 39.3 | 21.8 | 18.8 | | |
| 500 | 14.8 | 49.5 | 40.2 | 38.2 | 20.0 | 17.0 | | |
| 550 | 14.4 | 53.1 | 39.5 | 37.5 | 18.9 | 15.9 | | |

*Values above 250 MHz are for engineering information only

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