



PRODUCT SPECIFICATIONS

**CONVERGENT
CONNECTIVITY
TECHNOLOGY**

CAT6ASNP4

| | |
|---------------------------|--|
| Description: | 23AWG Non-plenum, shielded four twisted pairs, Category 6A Horizontal Cable Tested to 500 MHz. |
| Ratings/Approvals: | NEC Article 800, UL 444 Type CMR Rating FT4, C(ETL)US, RoHs Compliant |
| Applications: | Supports all category 6A applications including Ethernet 10 Gigabit, 100BASETX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422. |

CONSTRUCTION

| | |
|--|---|
| Conductor: | 23 AWG Solid Bare Copper |
| Number of Conductors or Pairs: | 4 Pair |
| Construction: | 4 Pairs cabled around a pair separator (spline) |
| Tape: | Clear Mylar Tape |
| Drain: | Solid Tin Copper |
| Shield: | Aluminum/Polyester Tape (100% Coverage) |
| Jacket Material: | Polyvinyl Chloride |
| Nominal Overall Cable Diameter: | 0.290 in. (8.255 mm) |
| Approximate Cable Weight: | 52 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: | 5% |
| Maximum Delay Skew: | 45 ns/100m |
| Characteristic Impedance: | From 0.772 MHz - 100 MHz 100 ± 15% From 100 MHz - 250 MHz 100 ± 22% From 251 MHz - 500 MHz 100 ± 32% |
| Insulation Colors: | Blue paired with White/Blue Orange paired with White/Orange Green paired with White/Green Brown paired with White/Brown |



Issue Date: March '16 Revision: 2

THE STRONGEST LINK IN YOUR SUPPLY CHAIN



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ELECTRICAL CHARACTERISTICS

| Frequency MHz | Return Loss | Insertion Loss | NEXT | PS-NEXT | ACRF | PS-ACRF | Prop. Delay | Alien Crosstalk | |
|----------------------|----------------|-------------------|-----------|-----------|-----------|-----------|----------------|-----------------|----------|
| | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | (dB/100m) | PS ANEXT | PS AACRF |
| | Minimum | Maximum | Minimum | Minimum | Minimum | Minimum | Maximum | Minimum | Minimum |
| 1 | 20.0 | 2.0 | 74.3 | 72.3 | 67.8 | 64.8 | 570.0 | 67.0 | 67.0 |
| 4 | 23.0 | 3.8 | 65.3 | 63.3 | 52.8 | 52.8 | 552.0 | 67.0 | 66.2 |
| 8 | 24.5 | 5.3 | 60.8 | 58.8 | 46.7 | 46.7 | 546.7 | 67.0 | 60.1 |
| 10 | 25.0 | 5.9 | 59.3 | 57.3 | 44.8 | 44.8 | 545.4 | 67.0 | 58.2 |
| 16 | 25.0 | 7.4 | 56.2 | 54.2 | 40.7 | 40.7 | 543.0 | 67.0 | 54.1 |
| 20 | 25.0 | 8.3 | 54.8 | 52.8 | 38.8 | 38.8 | 542.0 | 67.0 | 52.2 |
| 25 | 24.3 | 9.3 | 53.3 | 51.3 | 36.8 | 36.8 | 541.2 | 67.0 | 50.2 |
| 31.25 | 23.6 | 10.5 | 51.9 | 49.9 | 34.9 | 34.9 | 540.4 | 67.0 | 48.3 |
| 62.5 | 21.5 | 14.9 | 57.4 | 45.4 | 28.9 | 28.9 | 538.6 | 65.6 | 42.3 |
| 100 | 20.1 | 19.1 | 44.3 | 42.3 | 24.8 | 24.8 | 537.6 | 62.5 | 38.2 |
| 155 | 18.8 | 24.0 | 41.4 | 39.4 | 21.0 | 21.0 | 536.9 | 59.6 | 34.4 |
| 200 | 18.0 | 27.5 | 39.8 | 37.8 | 18.8 | 18.8 | 536.5 | 58.0 | 32.2 |
| 250 | 17.3 | 31.0 | 38.3 | 36.3 | 16.8 | 16.8 | 536.3 | 56.5 | 30.2 |
| 300 | 16.8 | 34.2 | 37.1 | 35.1 | 15.3 | 15.3 | 536.1 | 55.3 | 28.7 |
| 350 | 16.3 | 37.2 | 36.1 | 34.1 | 13.9 | 13.9 | 535.9 | 54.3 | 27.3 |
| 400 | 15.9 | 40.0 | 35.3 | 33.3 | 12.8 | 12.8 | 535.8 | 53.5 | 26.2 |
| 500 | 15.2 | 45.2 | 33.8 | 31.8 | 10.8 | 10.8 | 535.6 | 52.0 | 24.2 |

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