



# PRODUCT SPECIFICATIONS

**CONVERGENT  
CONNECTIVITY  
TECHNOLOGY**

## CAT5ENP25

- Description:** Unshielded twenty-five twisted pair Category 5e Enhanced Horizontal Cable with a PVC jacket.
- Standards/Listings:** ANSI/TIA/EIA 568B.2.1 Category 5e Swept to 350 MHz, ISO/EIC 11801 Category 5e, NEC Article 800, UL 1666: CMR Riser, ETL Electrically Verified to ANSI/TIA/EIA 568B.2.1 Category 5e, C(ETL)US CMR, RoHS Compliant
- Applications:** Supports all category 5 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited as 622 ATM. Wideband, and Ethernet 10000BASE-T.

### CONSTRUCTION

|  |                          |
|--|--------------------------|
| <b>Conductor:</b>                      | 24 AWG Solid Bare Copper |
| <b>Number of Conductors or Pairs:</b>  | 25 Pair                  |
| <b>Jacket Material:</b>                | Polyvinyl Chloride       |
| <b>Nominal Overall Cable Diameter:</b> | 0.500 inch (12.700 mm)   |
| <b>Approximate Cable Weight:</b>       | 106 lb/1,000 ft.         |

### ELECTRICAL & PHYSICAL PROPERTIES

|  |   |
|--|---|
| <b>Temperature Rating:</b>             | Installation: 0°C to 50°C<br>Operation: -10°C to 60°C   |
| <b>Velocity of Propagation:</b>        | 70%   |
| <b>Mutual Capacitance:</b>             | 14 pF/ft Nominal  |
| <b>Capacitance Unbalance:</b>          | 330 pF/ft maximum   |
| <b>Maximum Conductor D.C.R.:</b>       | 28.6Ω/1,000 ft  |
| <b>Maximum D.C.R. Unbalance:</b>       | 5%  |
| <b>Maximum Delay Skew:</b>             | 45.0ns/100m   |
| <b>Maximum Propagation Delay Skew:</b> | 5.7ns/100m  |
| <b>Characteristic Impedance:</b>       | From 0.772 MHz — 100 MHz      100 ± 15%<br>From 101 MHz — 250 MHz      100 ± 22%<br>From 201 MHz—350 MHz      100 ± 32% |
| <b>Insulation Colors:</b>              | See Table A   |

Issue Date: May '11    Revision: 0

**THE STRONGEST LINK IN YOUR SUPPLY CHAIN**

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**Table A:**

| Pair Number | Color Combination         | Pair Number | Color Combination         | Pair Number | Color Combination        |
|-------------|---------------------------|-------------|---------------------------|-------------|--------------------------|
| 1           | Black paired with Blue    | 10          | Yellow paired with Gray   | 19          | Red paired with Brown    |
| 2           | Black paired with Orange  | 11          | Violet paired with Blue   | 20          | Red paired with Gray     |
| 3           | Black paired with Green   | 12          | Violet paired with Orange | 21          | White paired with Blue   |
| 4           | Black paired with Brown   | 13          | Violet paired with Green  | 22          | White paired with Orange |
| 5           | Black paired with Gray    | 14          | Violet paired with Brown  | 23          | White paired with Green  |
| 6           | Yellow paired with Blue   | 15          | Violet paired with Gray   | 24          | White paired with Brown  |
| 7           | Yellow paired with Orange | 16          | Red paired with Blue      | 25          | White paired with Gray   |
| 8           | Yellow paired with Green  | 17          | Red paired with Orange    |             |                          |
| 9           | Yellow paired with Brown  | 18          | Red paired with Green     |             |                          |

### ELECTRICAL CHARACTERISTICS

| Frequency | SRL     | Return Loss | Attenuation | NEXT    | PS-NEXT | ELFEXT  | PS-ELFEXT | ACR     | PS-ACR  |
|-----------|---------|-------------|-------------|---------|---------|---------|-----------|---------|---------|
|           | dB      | dB          | dB(100m)    | dB      | dB      | dB      | dB        | dB      | dB      |
| MHz       | Minimum | Minimum     | Maximum     | Minimum | Minimum | Minimum | Minimum   | Minimum | Minimum |
| 1         | 23.0    | 20.0        | 2.0         | 65.3    | 62.3    | 63.8    | 60.8      | 63.3    | 60.3    |
| 4         | 23.0    | 20.3        | 4.0         | 56.3    | 53.3    | 51.7    | 48.7      | 52.3    | 49.3    |
| 8         | 23.0    | 20.5        | 5.7         | 51.8    | 48.8    | 45.7    | 42.7      | 46.1    | 43.1    |
| 10        | 23.0    | 25.0        | 6.4         | 50.3    | 47.3    | 43.8    | 40.8      | 43.9    | 40.4    |
| 16        | 23.0    | 25.0        | 8.2         | 47.3    | 44.3    | 39.7    | 36.7      | 39.1    | 36.1    |
| 20        | 23.0    | 25.0        | 9.2         | 45.8    | 42.8    | 37.7    | 34.7      | 36.6    | 33.6    |
| 25        | 22.0    | 25.0        | 10.4        | 44.3    | 41.3    | 35.8    | 32.8      | 33.9    | 30.9    |
| 31.25     | 21.1    | 23.6        | 11.7        | 42.9    | 39.9    | 33.9    | 30.9      | 31.2    | 28.2    |
| 62.5      | 18.1    | 21.5        | 16.9        | 38.4    | 35.4    | 27.8    | 24.8      | 21.5    | 18.5    |
| 100       | 16.0    | 20.1        | 21.9        | 35.3    | 32.3    | 23.8    | 20.8      | 13.4    | 10.4    |
| 250       | 12.0    | 17.3        | 36.8        | 34.3    | 32.3    | 15.8    | 12.8      | ----    | ----    |
| 300       | 11.2    | 16.8        | 40.9        | 33.2    | 31.2    | 14.2    | 11.2      | ----    | ----    |
| 350       | 10.6    | 16.3        | 44.8        | 32.2    | 30.2    | 12.9    | 9.9       | ----    | ----    |

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