

# CAT5E FTP INDOOR CABLE

## SHIELDED WITH DRAIN WIRE

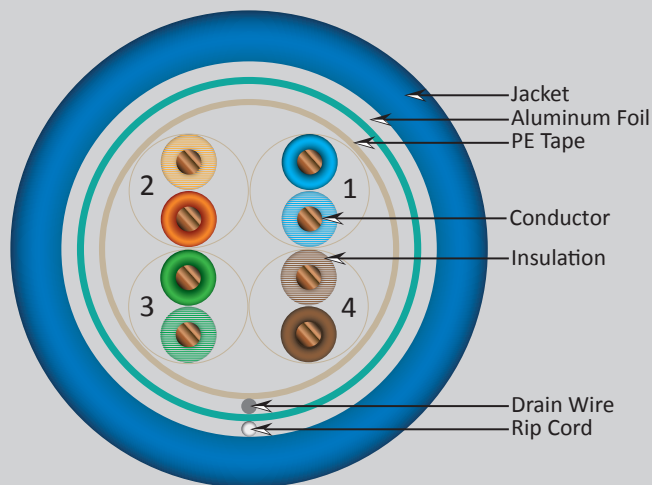


### DESCRIPTION

Category-5E, 24AWG, FTP, 8C Solid Bare Copper, PVC Jacket 1000ft

### FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-5E Shielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed, RoHS Compliant
- 1000ft Wooden Spool



#### Technical Data

|                        |                             |
|------------------------|-----------------------------|
| Rated Temperature (°C) | 75                          |
| Rated Voltage          | 60v                         |
| Application            | Horizontal Wiring in LAN    |
| Reference Standard     | EIA/TIA 568 & ISO/IEC 11801 |

#### Conductor

Size

**Solid Bare Copper**

24 AWG

#### Insulation

**PE**

|                                       |         |
|---------------------------------------|---------|
| Average Thickness (mm)                | 0.228   |
| Min. Point Thickness (mm)             | 0.205   |
| Insulation Diameter ( $\pm 0.005$ mm) | 0.96    |
| Twisted Pair Diameter ( $\pm 0.01$ )  | 1.94    |
| Bond (mm)                             | PE-Tape |
| Shield (mm)                           | AL Foil |
| Drain Wire Dia. ( $\pm 0.003$ mm)     | 0.40    |
| (Solid Tinned Copper)                 |         |

#### Assembly Diameter

**4.95**

#### Jacket

**PVC**

|                                 |      |
|---------------------------------|------|
| Average Thickness (mm)          | 0.60 |
| Min. Point Thickness (mm)       | 0.55 |
| Outer Diameter ( $\pm 0.10$ mm) | 6.10 |
| Rip Cord                        | Yes  |

#### Color of Pairs

|        |                      |
|--------|----------------------|
| Pair 1 | Blue, White-Blue     |
| Pair 2 | Orange, White-Orange |
| Pair 3 | Green, White-Green   |
| Pair 4 | Brown, White-Brown   |

#### Marking on Jacket

NHTD INDOOR FTP CABLE 4PR 24AWG CAT.5E 350MHz c(ETL)us  
VERIFIED CM TIA/EIA-568C.2 RoHS XXXM  
(SEQUENTIAL METER MARKERS ON JACKET)

Jacket color available in  
Gray



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### PERFORMANCE

#### Electrical Characteristics:

|                                                            |                        |
|------------------------------------------------------------|------------------------|
| 1.0-100MHz Impedance ( $\Omega$ )                          | 100 $\pm$ 15           |
| 100-200MHz Impedance ( $\Omega$ )                          | 100 $\pm$ 25           |
| 200-350MHz Impedance ( $\Omega$ )                          | 100 $\pm$ 35           |
| 1.0-350.0MHz Delay Skew (ns/100m)                          | $\leq$ 45              |
| Pair-to-Ground Capacitance Unbalance (pF/100m)             | $\leq$ 330             |
| Max. Conductor DC Resistance 20°C ( $\Omega$ /km)          | 93.8                   |
| Resistance Unbalance (%)                                   | $\leq$ 5               |
| Insulation Resistance (M $\Omega$ Km, DC500V Charge 1 Min) | $\geq$ 5000            |
| Voltage Endurance (DC V/min)                               | 1000 without breakdown |

| Frequency (Mhz) | Return Loss (Min dB) | Attenuation Max | Next (ns/100m) | ACR Typ(dB) |
|-----------------|----------------------|-----------------|----------------|-------------|
| 0.772           | 19.4                 | 1.8             | 67.0           | 67.7        |
| 1               | 20.0                 | 2.0             | 65.3           | 67.3        |
| 4               | 23.0                 | 4.1             | 56.3           | 56.2        |
| 8               | 24.5                 | 5.8             | 51.8           | 50.0        |
| 10              | 25.0                 | 6.5             | 50.3           | 47.8        |
| 16              | 25.0                 | 8.2             | 47.3           | 44.0        |
| 20              | 25.0                 | 9.3             | 45.8           | 41.5        |
| 25              | 24.3                 | 10.4            | 44.3           | 38.9        |
| 31.25           | 23.6                 | 11.7            | 42.9           | 36.2        |
| 62.5            | 21.5                 | 17.0            | 38.4           | 27.4        |
| 100             | 20.1                 | 22.0            | 35.3           | 19.3        |
| 200             | 18.0                 | 32.4            | 30.8           | 3.5         |
| 300             | 16.8                 | 41.0            | 28.2           | -----       |
| 350             | 16.3                 | 44.9            | 27.2           | -----       |

| Frequency (Mhz) | PSNext (Min dB) | ELFEXT Min(db/100m) | PSELFEXT Min(db/100m) |
|-----------------|-----------------|---------------------|-----------------------|
| 0.772           | 64.0            | 66.0                | 63.0                  |
| 1               | 62.3            | 63.8                | 60.8                  |
| 4               | 53.3            | 51.7                | 48.7                  |
| 8               | 48.8            | 45.7                | 42.7                  |
| 10              | 47.3            | 43.8                | 40.8                  |
| 16              | 44.3            | 39.7                | 36.7                  |
| 20              | 42.8            | 37.7                | 34.7                  |
| 25              | 41.3            | 35.8                | 32.8                  |
| 31.25           | 39.9            | 33.9                | 30.9                  |
| 62.5            | 35.4            | 27.8                | 24.8                  |
| 100             | 32.3            | 23.8                | 20.8                  |
| 200             | 27.8            | 17.7                | 14.7                  |
| 300             | 25.2            | 14.2                | 11.2                  |
| 350             | 24.2            | 12.9                | 9.9                   |

