

# CAT5 ENHANCED 350MHz UTP PLENUM (CMP)

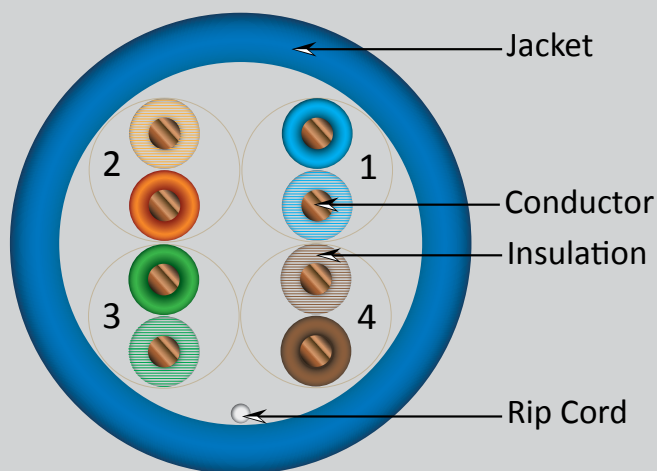
## SKU: 056 SERIES

### DESCRIPTION

Category-5E, CMP Rated, 24AWG, UTP, 8C Solid Bare Copper, 350MHz, 1000ft.

### FEATURES

- High-Performance Category-5E Data Cable
- 350Mhz Bandwidth for Data Applications
- Suitable for High-Speed Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Flame Retardant, Plenum Rated
- Unshielded Twisted Pair (UTP) Cable
- Easily Identified Color-Striped Pairs
- 24AWG Solid Bare Copper Conductors
- Exceeds TIA/EIA 568-C.2 specification
- Excellent Attenuation and Crosstalk Characteristics
- UL Listed, RoHS Compliant, TAA Compliant
- 1000ft Pull Box



#### Technical Data

|                                |                          |
|--------------------------------|--------------------------|
| Rated Temperature              | 75 °C                    |
| Rated Voltage                  | 30V                      |
| Product Standard Certification | CMP                      |
| <b>Conductor</b>               | <b>Solid Bare Copper</b> |
| AWG                            | 24                       |
| <b>Insulation</b>              | <b>FEP</b>               |
| Thickness                      | 0.20mm                   |
| <b>Jacket</b>                  | <b>FR-PVC</b>            |
| Outer Diameter                 | 5.3mm                    |
| 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   |

#### Electrical Characteristics

|           |                      |
|-----------|----------------------|
| Standard  | ANSI TIA/EIA-568 C.2 |
| Impedance | 100Ω±15%             |

#### Standards

UL, cUL (E191267)  
ETL Verified to ANSI/TIA 568-C.2 Category-5E

#### Applications

ANSI X3T9.5 TP-PMD (FDDI), ATM PMD 155 Mbps  
IEEE 802.3 Fast Ethernet :10 Base-T, 100 Base-T4, 100 Base-X  
IEEE 802.5 :4/16 Mbps Token Ring, IEEE 802.12 :100 Base-VG

#### Jacket Printing

Vertical Cable E191267 (UL) c(UL) 4PR 24AWG CMP FT6 -  
ETL CAT5E VERIFIED to TIA/EIA 568-C.2 ROHS COMPLIANT  
V1395P8383 1000FT

Jacket Colors Available:  
Blue



Rev. 05/2015

Specs subject to change without notice.  
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## PERFORMANCE

### Electrical Characteristics:

|                       |                         |
|-----------------------|-------------------------|
| Conductor Resistance  | 9.38 $\Omega$ /100m Max |
| Mutual Capacitance    | 5.6 nF/100m Max         |
| Resistance Unbalance  | 5% Max                  |
| Capacitance Unbalance | 330 pF/100m Max         |

| Frequency<br>(MHz) | Attenuation<br>Min. dB/100m | Return Loss<br>Min. dB/100m | NEXT<br>Min. dB/100m |
|--------------------|-----------------------------|-----------------------------|----------------------|
| 1                  | 2.0                         | 20.0                        | 65.3                 |
| 4                  | 4.1                         | 23.0                        | 56.3                 |
| 8                  | 5.8                         | 24.5                        | 51.8                 |
| 10                 | 6.5                         | 25.0                        | 50.3                 |
| 16                 | 8.2                         | 25.0                        | 47.2                 |
| 20                 | 9.3                         | 25.0                        | 45.8                 |
| 25                 | 10.4                        | 24.3                        | 44.3                 |
| 31.25              | 11.7                        | 23.6                        | 42.9                 |
| 62.5               | 17.0                        | 21.5                        | 38.4                 |
| 100                | 22.0                        | 20.1                        | 35.3                 |
| 155                | 28.1                        | 18.8                        | 32.4                 |
| 200                | 32.4                        | 18.0                        | 30.8                 |
| 250                | 36.9                        | 17.3                        | 29.3                 |
| 300                | 41.0                        | 16.8                        | 28.1                 |
| 350                | 44.9                        | 16.3                        | 27.1                 |

| Frequency<br>(MHz) | P.S NEXT<br>Min. dB/100m | ACRF<br>Min. dB/100m | P.S ELNEXT<br>Min. dB/100m |
|--------------------|--------------------------|----------------------|----------------------------|
| 1                  | 62.3                     | 63.8                 | 60.8                       |
| 4                  | 53.3                     | 51.7                 | 48.8                       |
| 8                  | 48.8                     | 45.7                 | 42.7                       |
| 10                 | 47.3                     | 43.8                 | 40.8                       |
| 16                 | 44.3                     | 39.7                 | 36.7                       |
| 20                 | 42.8                     | 37.8                 | 34.8                       |
| 25                 | 41.3                     | 35.8                 | 32.8                       |
| 31.25              | 39.9                     | 33.9                 | 30.9                       |
| 62.5               | 35.4                     | 27.9                 | 24.9                       |
| 100                | 32.3                     | 23.8                 | 20.8                       |
| 155                | 29.4                     | 20.0                 | 17.0                       |
| 200                | 27.8                     | 17.8                 | 14.8                       |
| 250                | 26.3                     | 15.8                 | 12.8                       |
| 300                | 25.1                     | 14.3                 | 11.3                       |
| 350                | 24.1                     | 12.9                 | 9.9                        |



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Cable ID: CAT5E 056 350MHZ

Test Summary: PASS

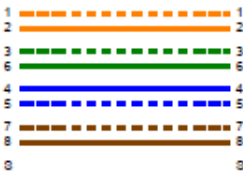
Date / Time: 05/21/2012 03:47:49pm  
Headroom: 11.0 dB (NEXT 36-78)  
Test Limit: TIA Cat 5e Perm. Link  
Cable Type: Cat 5e UTP

Operator: Your Name  
Software Version: 2.5200  
Limits Version: 1.7000  
NVP: 69.0%

Model: DTX-1800  
Main S/N: 1279007  
Remote S/N: 1279008  
Main Adapter: DTX-PLA002  
Remote Adapter: DTX-PLA002

Wire Map (T568B)

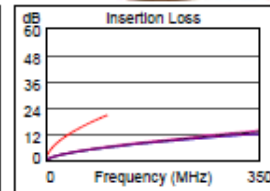
PASS



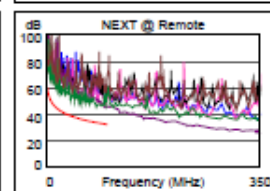
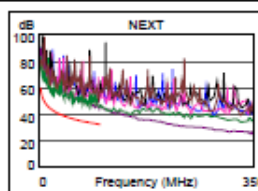
96 ft



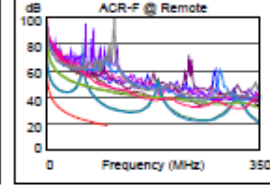
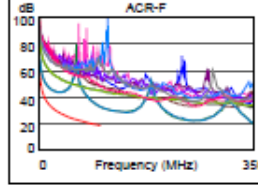
|                             |           |       |
|-----------------------------|-----------|-------|
| Length (ft), Limit 295      | [Pair 45] | 96    |
| Prop. Delay (ns), Limit 498 |           | 149   |
| Delay Skew (ns), Limit 44   |           | 8     |
| Resistance (ohms)           | [Pair 36] | 6.2   |
| Insertion Loss Margin (dB)  | [Pair 36] | 14.3  |
| Frequency (MHz)             | [Pair 36] | 100.0 |
| Limit (dB)                  | [Pair 36] | 21.0  |



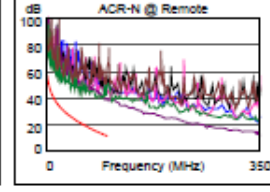
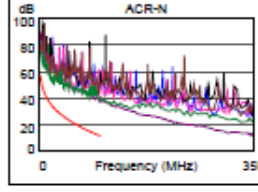
|              | Worst Case Margin |       | Worst Case Value |       |
|--------------|-------------------|-------|------------------|-------|
| PASS         | MAIN              | SR    | MAIN             | SR    |
| Worst Pair   | 36-78             | 36-78 | 36-45            | 36-45 |
| NEXT (dB)    | 11.0              | 11.2  | 11.4             | 12.1  |
| Freq. (MHz)  | 23.4              | 81.5  | 98.8             | 99.3  |
| Limit (dB)   | 42.6              | 33.8  | 32.4             | 32.4  |
| Worst Pair   | 36                | 36    | 36               | 36    |
| PS NEXT (dB) | 11.7              | 13.3  | 11.7             | 13.5  |
| Freq. (MHz)  | 98.5              | 81.3  | 98.5             | 98.5  |
| Limit (dB)   | 29.4              | 30.8  | 29.4             | 29.4  |



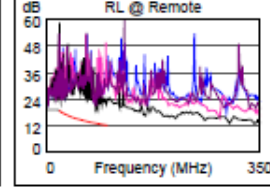
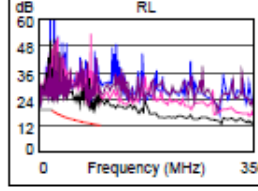
| PASS          | MAIN  | SR    | MAIN  | SR    |
|---------------|-------|-------|-------|-------|
| Worst Pair    | 45-36 | 36-45 | 36-45 | 45-36 |
| ACR-F (dB)    | 10.6  | 10.7  | 14.2  | 14.0  |
| Freq. (MHz)   | 1.0   | 1.0   | 99.8  | 99.8  |
| Limit (dB)    | 58.6  | 58.6  | 18.6  | 18.6  |
| Worst Pair    | 36    | 45    | 36    | 36    |
| PS ACR-F (dB) | 14.4  | 14.4  | 17.1  | 17.1  |
| Freq. (MHz)   | 1.6   | 1.6   | 98.5  | 99.8  |
| Limit (dB)    | 51.4  | 51.4  | 15.7  | 15.6  |



| N/A           | MAIN  | SR    | MAIN  | SR    |
|---------------|-------|-------|-------|-------|
| Worst Pair    | 36-78 | 36-78 | 36-45 | 36-45 |
| ACR-N (dB)    | 17.6  | 18.0  | 25.8  | 26.6  |
| Freq. (MHz)   | 6.5   | 6.5   | 98.8  | 99.5  |
| Limit (dB)    | 46.5  | 46.5  | 11.6  | 11.4  |
| Worst Pair    | 36    | 36    | 36    | 36    |
| PS ACR-N (dB) | 19.9  | 20.7  | 25.8  | 27.6  |
| Freq. (MHz)   | 23.5  | 6.5   | 98.5  | 98.5  |
| Limit (dB)    | 29.9  | 43.5  | 8.6   | 8.6   |



| PASS        | MAIN | SR   | MAIN | SR   |
|-------------|------|------|------|------|
| Worst Pair  | 45   | 45   | 45   | 45   |
| RL (dB)     | 4.9  | 5.0  | 6.4  | 5.7  |
| Freq. (MHz) | 23.5 | 23.5 | 84.3 | 84.0 |
| Limit (dB)  | 18.3 | 18.3 | 12.8 | 12.8 |



Compliant Network Standards:

10BASE-T  
100BASE-T  
ATM-155  
TR-16 Active

100BASE-TX  
ATM-25  
100VG-AnyLan  
TR-16 Passive

100BASE-T4  
ATM-S1  
TR-4

Project: DEFAULT  
Site: Client Name

UNTITLED.flw

FLUKE  
networks



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