

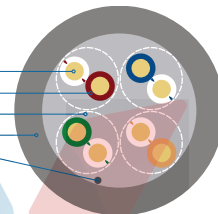
U/UTP Unshielded CAT.5E INTERIOR 24AWG Twisted Pair Installation Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products: CN200920124768. 4.

Copper Conductor
HDPE Insulation
Pair
Jacket
Rip Cord



Conductor

| | |
|--------------------------------------|--|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 2x8, twisted in 2x4 pairs |
| Color code | White-Blue/Blue, White-Orange/Orange White-Green/Green, White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

Electrical Characteristics

- Bandwidth: 100MHz
- Transmission Speed: 100MPS
- Jacket: PVC
- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75 °C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20 °C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

Order information

| Item | Outer Jacket | Overall diameter(mm) |
|--------|--------------|----------------------|
| D205-P | CMX | (5.2+5.2)+/-0.3 |
| D205-C | CM | (5.2+5.2)+/-0.3 |
| D205-R | CMR | (5.2+5.2)+/-0.3 |
| D205-L | LSZH | (5.2+5.2)+/-0.3 |
| D205-E | LDPE | (5.2+5.2)+/-0.3 |

Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|-----------|----------|-----------|-----------|------------------|------------|--------------|-------------|---------------|
| (MHz) | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2 °C under the conditions tested.

TEST REPORT



Cable ID: U/UTPCAT5EMWA

Test Summary: PASS

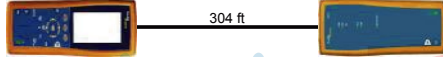
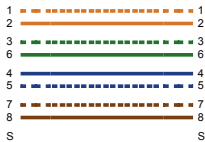
Date / Time: 04/02/2020 04:35:31pm
 Headroom: 2.2 dB (NEXT 36-78)
 Test Limit: TIA Cat 5e Channel
 Cable Type: Cat 5e UTP

Operator: MR ZHU
 Software Version: 2.5200
 Limits Version: 1.7000
 NVP: 69.0%

Model: DSX-5000
 Main S/N: 9439023
 Remote S/N: 9439024
 Main Adapter: DSX-CHA001
 Remote Adapter: DSX-CHA001

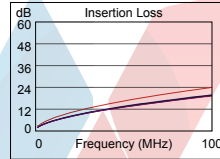
Wire Map (T568B)

PASS

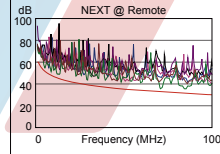
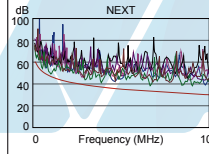


Length (ft), Limit 328 [Pair 78] 304
 Prop. Delay (ns), Limit 555 459
 Delay Skew (ns), Limit 50 11
 Resistance (ohms) [Pair 12] 16.8

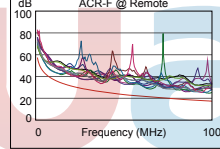
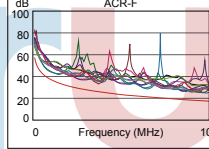
Insertion Loss Margin (dB) [Pair 12] 4.1
 Frequency (MHz) [Pair 12] 100.0
 Limit (dB) [Pair 12] 24.0



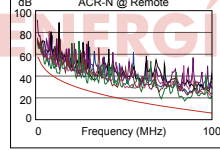
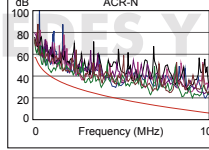
| | Worst Case Margin | | Worst Case Value | |
|---------------------|-------------------|-------|------------------|-------|
| | MAIN | SR | MAIN | SR |
| PASS | | | | |
| Worst Pair | 36-78 | 36-78 | 36-78 | 36-78 |
| NEXT (dB) | 2.2 | 2.5 | 6.5 | 3.1 |
| Freq. (MHz) | 10.3 | 71.0 | 85.0 | 84.8 |
| Limit (dB) | 46.8 | 32.6 | 31.3 | 31.3 |
| Worst Pair | 36 | 36 | 36 | 78 |
| PS NEXT (dB) | 4.3 | 5.0 | 10.0 | 5.4 |
| Freq. (MHz) | 10.3 | 5.0 | 97.8 | 84.8 |
| Limit (dB) | 43.8 | 49.0 | 27.2 | 28.3 |



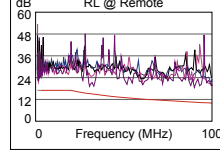
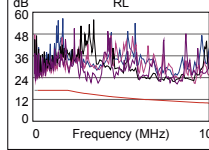
| | Worst Case Margin | | Worst Case Value | |
|----------------------|-------------------|-------|------------------|-------|
| | MAIN | SR | MAIN | SR |
| PASS | | | | |
| Worst Pair | 36-45 | 45-36 | 45-36 | 36-45 |
| ACR-F (dB) | 6.7 | 6.8 | 7.3 | 7.1 |
| Freq. (MHz) | 8.1 | 8.1 | 98.0 | 98.0 |
| Limit (dB) | 39.2 | 39.2 | 17.6 | 17.6 |
| Worst Pair | 36 | 36 | 36 | 36 |
| PS ACR-F (dB) | 7.5 | 6.5 | 8.1 | 6.5 |
| Freq. (MHz) | 87.3 | 93.8 | 100.0 | 93.8 |
| Limit (dB) | 15.6 | 15.0 | 14.4 | 15.0 |



| | Worst Case Margin | | Worst Case Value | |
|----------------------|-------------------|-------|------------------|-------|
| | MAIN | SR | MAIN | SR |
| N/A | | | | |
| Worst Pair | 36-78 | 36-78 | 12-36 | 36-78 |
| ACR-N (dB) | 3.8 | 4.4 | 13.3 | 7.4 |
| Freq. (MHz) | 10.4 | 5.0 | 97.8 | 84.8 |
| Limit (dB) | 39.5 | 47.0 | 6.5 | 9.4 |
| Worst Pair | 36 | 36 | 36 | 78 |
| PS ACR-N (dB) | 5.9 | 6.2 | 14.5 | 9.7 |
| Freq. (MHz) | 5.3 | 5.0 | 97.8 | 84.8 |
| Limit (dB) | 43.5 | 44.0 | 3.5 | 6.4 |



| | Worst Case Margin | | Worst Case Value | |
|----------------|-------------------|------|------------------|------|
| | MAIN | SR | MAIN | SR |
| PASS | | | | |
| Worst Pair | 78 | 78 | 78 | 78 |
| RL (dB) | 6.5 | 4.1 | 9.5 | 8.1 |
| Freq. (MHz) | 33.0 | 30.5 | 81.5 | 90.0 |
| Limit (dB) | 14.8 | 15.2 | 10.9 | 10.5 |



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T ATM-25 100BASE-T4
 ATM-155 100G-AnyLan ATM-51
 TR-16 Active TR-16 Passive TR-4

