

UTP CAT.6 PE (out door)

Category 6 Unshielded Twisted Pair U/UTP Installation cable

CAU6EX

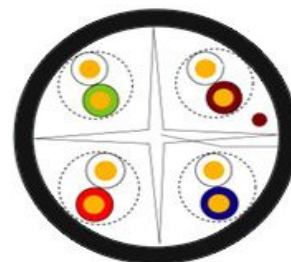
DESCRIPTION

Manufactured according to ISO / IEC 11801, ANSI/TIA 568 B.2, EN-50173, CPR Fca



TECHNICAL SPECIFICATIONS

| | |
|-------------------------|----------------------------------|
| Conductor | CCA : 0.57±0.01 mm |
| Insulation | HDPE : 1.02±0.05 mm |
| Identification of pairs | |
| 1 pair | Blue - White / Blue |
| 2 pair | Orange - White / Orange |
| 3 pair | Green - White / Green |
| 4 pair | Brown - White / Brown |
| Filler | PE |
| Tape | PET |
| Ripcord | Yes |
| Sheath | PE |
| Color | Black |
| Bending radius | ≥ 8 x Diameter (mm) Installation |
| Storage temperature | -15°C—+70°C |



ELECTRICAL CHARACTERISTICS

| n° Pairs.xΦmm | Conductor Resistance Ω/km | Resistance Unbalance | Cap. between cond. pair nF / 100m | Velocity of Propagation % | Impedance Ω | ΦExt. (Appvox) mm |
|---------------|------------------------------|----------------------|--------------------------------------|------------------------------|----------------|----------------------|
| 4x2x0.57CCA | max.112 | max.4% | / | 69 | 100±15 | 6.6±0.2 |

| Frequency (MHz) | RL ≥dB | ATT ≤dB/100m | NEXT ≥dB | DELAY ≤ns/100m | PS NEXT ≥dB | EL FEXT ≥dB/100m | PS EL FEXT ≥dB/100m |
|-----------------|-----------|-----------------|-------------|-------------------|----------------|---------------------|------------------------|
| 4 | 23.0 | 3.8 | 66.3 | 552.0 | 63.3 | 56.0 | 53.0 |
| 8 | 24.5 | 5.3 | 61.8 | 547.0 | 58.8 | 49.9 | 46.9 |
| 10 | 25.0 | 6.0 | 60.3 | 545.0 | 57.3 | 48.0 | 45.0 |
| 16 | 25.0 | 7.6 | 57.2 | 543.0 | 54.2 | 43.9 | 40.9 |
| 20 | 25.0 | 8.5 | 55.8 | 542.0 | 52.8 | 42.0 | 39.0 |
| 25 | 24.3 | 9.5 | 54.3 | 541.0 | 51.3 | 40.0 | 37.0 |
| 31.25 | 23.6 | 10.7 | 52.9 | 540.0 | 49.9 | 38.1 | 35.1 |
| 62.5 | 21.5 | 15.4 | 48.4 | 539.0 | 45.4 | 32.1 | 29.1 |
| 100 | 20.1 | 19.8 | 45.3 | 538.0 | 42.3 | 28.0 | 25.0 |
| 200 | 18.0 | 29.0 | 40.8 | 537.0 | 37.8 | 22.0 | 19.0 |
| 250 | 17.3 | 32.8 | 39.3 | 536.0 | 36.3 | 20.0 | 17.0 |

Appliance

Cable for data transmission in structured cabling networks (LAN), horizontal and secondary facilities.

Packing

305m /box



All sizes and values without tolerances are reference values. We reserves the right to amend this specification without prior notice.

**Ideal Technology has a policy of continuous improvement. Specifications are subject to change without notice.*



Cable ID: CCA0.57UTP CAT6

Test Summary: PASS

Date / Time: 12/14/2015 03:24:49pm

Headroom: 1.7 dB (NEXT 12-45)

Test Limit: TIA Cat 6 Channel

Cable Type: Cat 6 UTP

Operator: MQQ

Software Version: 2.7400

Limits Version: 1.9300

NVP: 69.0%

Model: DTX-1800

Main S/N: 9610061

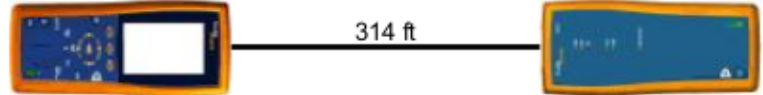
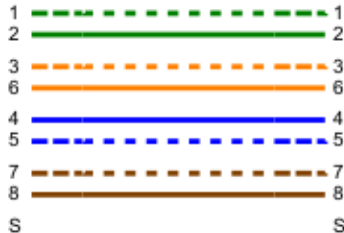
Remote S/N: 9610062

Main Adapter: DTX-PLA002

Remote Adapter: DTX-PLA002

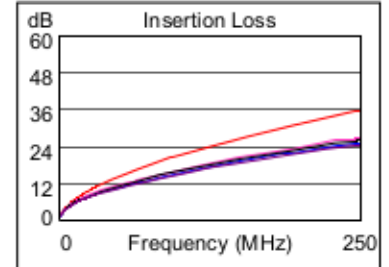
Wire Map (T568A)

PASS

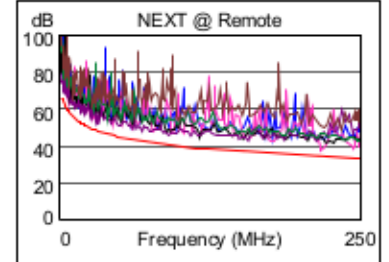
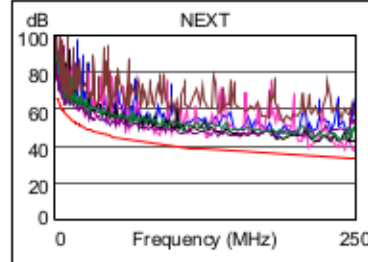


Length (ft), Limit 328 [Pair 78] 314
Prop. Delay (ns), Limit 555 482
Delay Skew (ns), Limit 50 19
Resistance (ohms) [Pair 45] 20.2

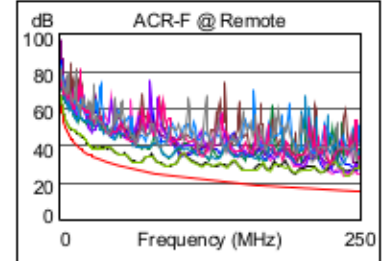
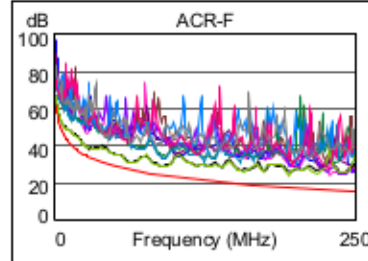
Insertion Loss Margin (dB) [Pair 36] 8.8
Frequency (MHz) [Pair 36] 250.0
Limit (dB) [Pair 36] 35.9



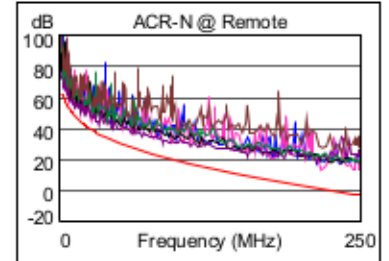
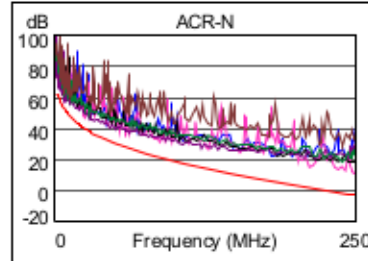
| | Worst Case Margin | | Worst Case Value | |
|---------------------|-------------------|-------|------------------|-------|
| PASS | MAIN | SR | MAIN | SR |
| Worst Pair | 12-45 | 12-45 | 12-45 | 12-45 |
| NEXT (dB) | 3.3 | 1.7 | 4.2 | 1.7 |
| Freq. (MHz) | 58.8 | 218.5 | 249.0 | 218.5 |
| Limit (dB) | 43.8 | 34.1 | 33.1 | 34.1 |
| Worst Pair | 78 | 12 | 12 | 12 |
| PS NEXT (dB) | 3.7 | 3.4 | 6.0 | 3.4 |
| Freq. (MHz) | 7.5 | 218.5 | 249.0 | 218.5 |
| Limit (dB) | 56.1 | 31.2 | 30.2 | 31.2 |



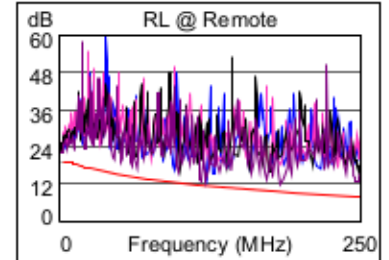
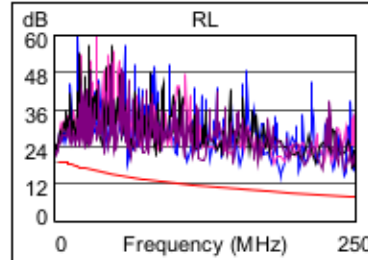
| | | | | |
|----------------------|-------|-------|-------|-------|
| PASS | MAIN | SR | MAIN | SR |
| Worst Pair | 12-78 | 78-12 | 12-78 | 78-12 |
| ACR-F (dB) | 3.8 | 3.6 | 8.3 | 7.6 |
| Freq. (MHz) | 62.8 | 62.8 | 239.5 | 239.5 |
| Limit (dB) | 27.3 | 27.3 | 15.7 | 15.7 |
| Worst Pair | 78 | 78 | 12 | 12 |
| PS ACR-F (dB) | 6.2 | 6.1 | 8.7 | 8.4 |
| Freq. (MHz) | 62.8 | 62.8 | 237.0 | 239.5 |
| Limit (dB) | 24.3 | 24.3 | 12.8 | 12.7 |



| | | | | |
|----------------------|-------|-------|-------|-------|
| N/A | MAIN | SR | MAIN | SR |
| Worst Pair | 36-45 | 36-45 | 12-45 | 12-45 |
| ACR-N (dB) | 4.0 | 4.3 | 13.6 | 10.3 |
| Freq. (MHz) | 7.5 | 3.1 | 249.0 | 218.5 |
| Limit (dB) | 53.1 | 61.2 | -2.7 | 0.9 |
| Worst Pair | 78 | 45 | 45 | 45 |
| PS ACR-N (dB) | 4.5 | 4.4 | 16.5 | 12.6 |
| Freq. (MHz) | 7.5 | 3.1 | 249.0 | 218.5 |
| Limit (dB) | 50.6 | 58.4 | -5.7 | -2.0 |



| | | | | |
|----------------|------|-------|-------|-------|
| PASS | MAIN | SR | MAIN | SR |
| Worst Pair | 78 | 78 | 12 | 78 |
| RL (dB) | 3.9 | 0.6* | 5.7 | 2.1 |
| Freq. (MHz) | 3.5 | 122.0 | 188.0 | 184.0 |
| Limit (dB) | 19.0 | 11.1 | 9.3 | 9.4 |



Compliant Network Standards:

10BASE-T 100BASE-TX
1000BASE-T ATM-25
ATM-155 100VG-AnyLan
TR-16 Active TR-16 Passive

100BASE-T4
ATM-51
TR-4

* Measurement is within the accuracy limits of the instrument.