

## UTP CAT.6 LSZH

Category 6 Unshielded Twisted Pair U/UTP Installation cable

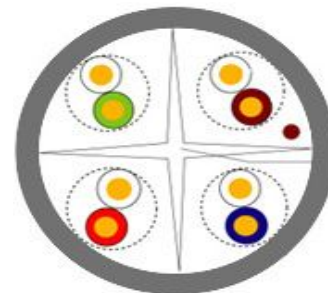
CAU6LU

### DESCRIPTION

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

### TECHNICAL SPECIFICATIONS

Conductor	Bare copper : 0.53±0.01 mm
Insulation	HDPE : 0.95±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
Ripcord	Yes
Sheath	LSZH
Color	White
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
4x2x0.53	max.85	max.4%	/	69	100±15	5.4±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: BC0.53 UTP CAT6

**Test Summary: PASS**

Date / Time: 12/15/2015 04:33:56pm

Headroom: 2.7 dB (NEXT 36-45)

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

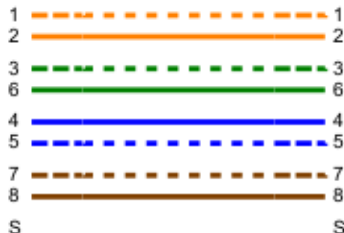
Remote S/N: 9610062

Main Adapter: DTX-PLA002

Remote Adapter: DTX-PLA002

Wire Map (T568B)

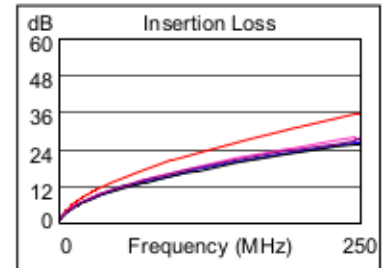
**PASS**



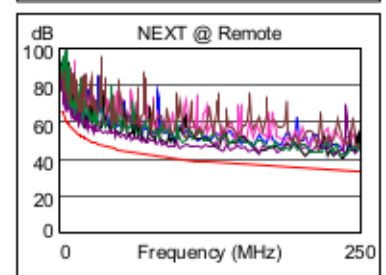
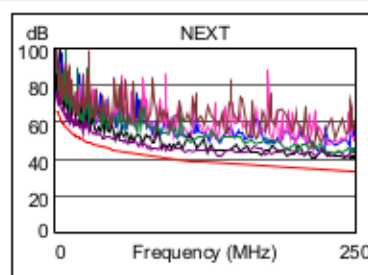
309 ft



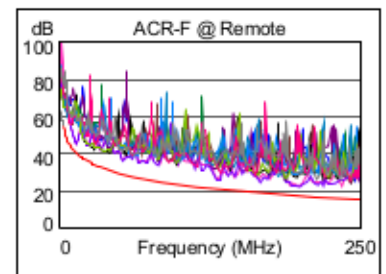
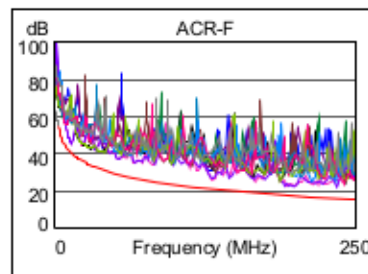
Length (ft), Limit 328	[Pair 45]	309
Prop. Delay (ns), Limit 555		470
Delay Skew (ns), Limit 50		15
Resistance (ohms)	[Pair 78]	15.0
Insertion Loss Margin (dB)	[Pair 36]	7.9
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	35.9



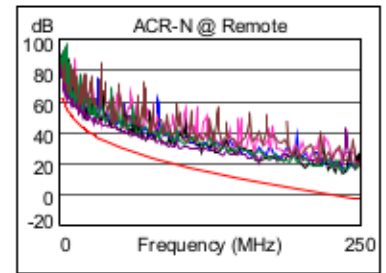
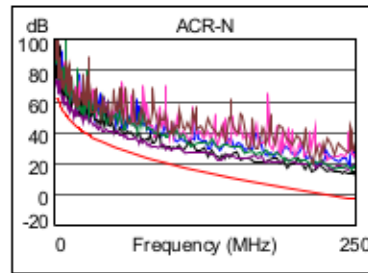
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	12-78	12-78
<b>NEXT (dB)</b>	2.7	4.6	6.6	6.1
Freq. (MHz)	82.5	7.5	240.0	235.0
Limit (dB)	41.3	58.6	33.4	33.6
Worst Pair	36	45	36	12
<b>PS NEXT (dB)</b>	5.0	5.5	7.6	7.2
Freq. (MHz)	82.5	3.3	228.5	237.5
Limit (dB)	38.5	62.0	30.8	30.5



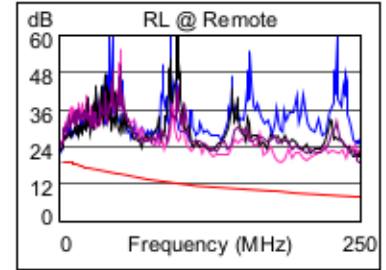
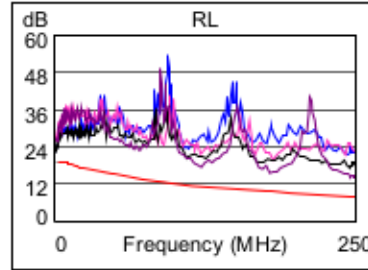
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45-12	45-12	45-12	45-12
<b>ACR-F (dB)</b>	4.4	4.2	4.9	5.0
Freq. (MHz)	131.5	133.0	199.5	198.0
Limit (dB)	20.9	20.8	17.3	17.3
Worst Pair	12	12	12	45
<b>PS ACR-F (dB)</b>	6.4	6.3	8.1	6.9
Freq. (MHz)	131.5	132.5	223.5	200.5
Limit (dB)	17.9	17.8	13.3	14.2



	Worst Case Margin		Worst Case Value	
<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	12-78	12-78
<b>ACR-N (dB)</b>	4.8	5.5	15.4	14.4
Freq. (MHz)	7.5	3.1	250.0	235.0
Limit (dB)	53.1	61.2	-2.8	-1.1
Worst Pair	36	45	78	78
<b>PS ACR-N (dB)</b>	6.2	6.2	17.1	15.4
Freq. (MHz)	7.5	3.3	250.0	235.0
Limit (dB)	50.6	58.4	-5.8	-4.0



	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	78	12	78	36
<b>RL (dB)</b>	5.7	6.2	6.0	9.6
Freq. (MHz)	179.5	3.6	249.5	206.5
Limit (dB)	9.5	19.0	8.0	8.9



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