

## UTP CAT.6 LSZH

Category 6 Unshielded Twisted Pair U/UTP Installation cable

CAU6LU

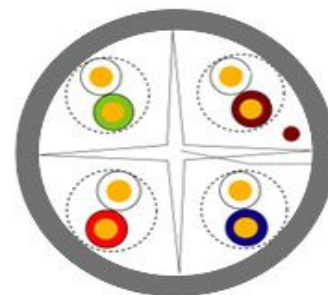
### DESCRIPTION

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

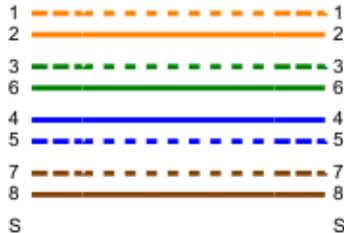
Remote S/N: 9610062

Main Adapter: DTX-PLA002

Remote Adapter: DTX-PLA002

### Wire Map (T568B)

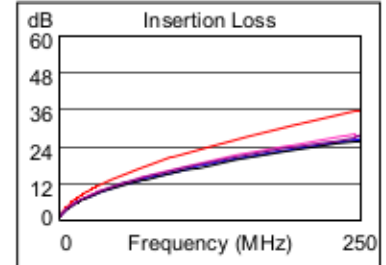
**PASS**



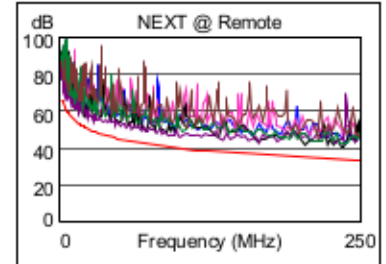
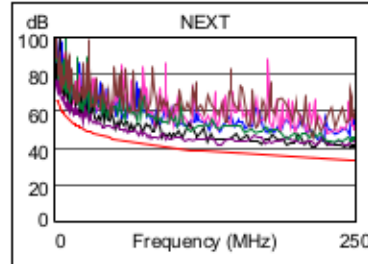
309 ft



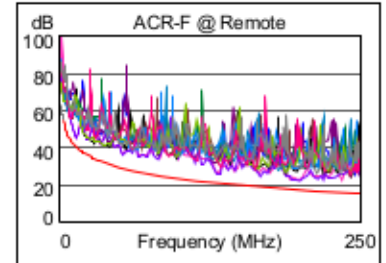
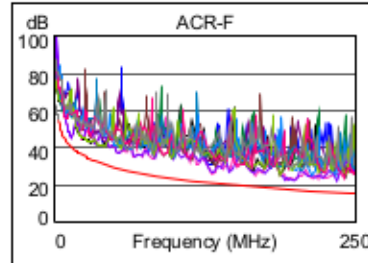
Length (ft), Limit 328	[Pair 45]	309
Prop. Delay (ns), Limit 555		470
Delay Skew (ns), Limit 50		15
Resistance (ohms)	[Pair 78]	15.0
Insertion Loss Margin (dB)	[Pair 36]	7.9
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	35.9



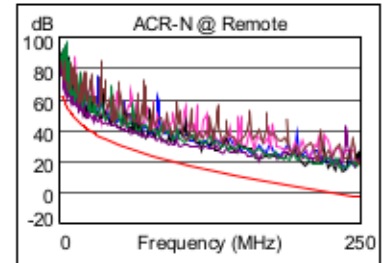
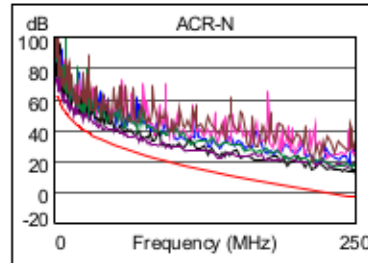
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	12-78	12-78
NEXT (dB)	2.7	4.6	6.6	6.1
Freq. (MHz)	82.5	7.5	240.0	235.0
Limit (dB)	41.3	58.6	33.4	33.6
Worst Pair	36	45	36	12
PS NEXT (dB)	5.0	5.5	7.6	7.2
Freq. (MHz)	82.5	3.3	228.5	237.5
Limit (dB)	38.5	62.0	30.8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



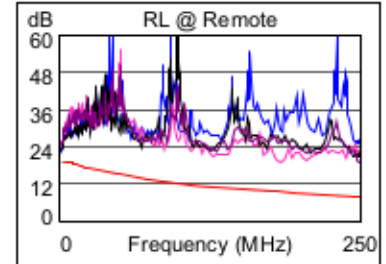
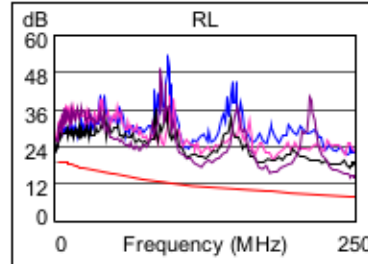
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45-12	45-12	45-12	45-12
ACR-F (dB)	4.4	4.2	4.9	5.0
Freq. (MHz)	131.5	133.0	199.5	198.0
Limit (dB)	20.9	20.8	17.3	17.3
Worst Pair	12	12	12	45
PS ACR-F (dB)	6.4	6.3	8.1	6.9
Freq. (MHz)	131.5	132.5	223.5	200.5
Limit (dB)	17.9	17.8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