

## UTP CAT.6 LSZH

Category 6 Unshielded Twisted Pair U/UTP stranded cable

CAU6LE

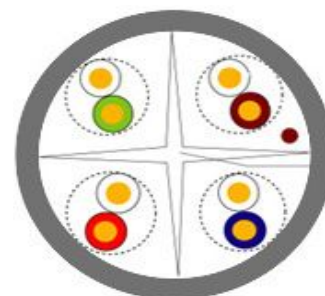
### DESCRIPTION

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



### TECHNICAL SPECIFICATIONS

Conductor	CCA : 0.56±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
Ripcord	Yes
Sheath	LSZH
Color	Yellow / Blue / Green / Red / Brown
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
4x2x0.56CCA	max.116	max.4%	/	69	100±15	6.1±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: CAS/LUTP-C6-23AWG-LSOH

**Test Summary: PASS**

Date / Time: 12/11/2015 10:56:14am

Headroom: 3.7 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

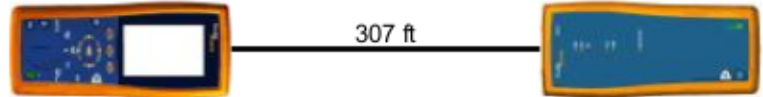
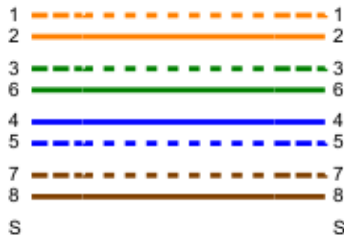
Remote S/N: 9610062

Main Adapter: DTX-PLA002

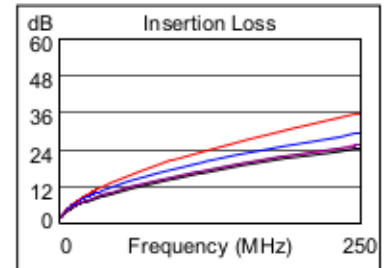
Remote Adapter: DTX-PLA002

Wire Map (T568B)

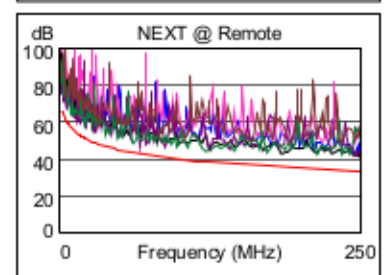
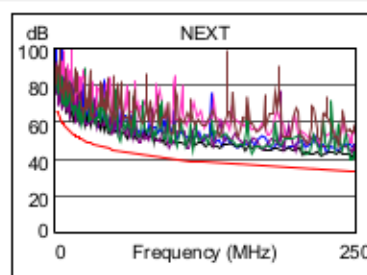
**PASS**



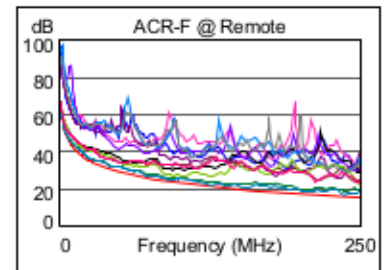
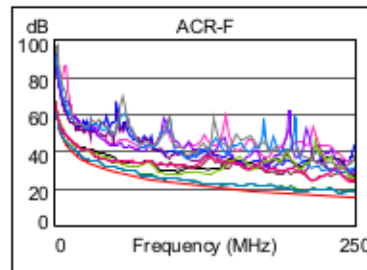
Length (ft), Limit 328	[Pair 45]	307
Prop. Delay (ns), Limit 555		470
Delay Skew (ns), Limit 50		18
Resistance (ohms)	[Pair 12]	21.5
Insertion Loss Margin (dB)	[Pair 12]	6.3
Frequency (MHz)	[Pair 12]	250.0
Limit (dB)	[Pair 12]	35.9



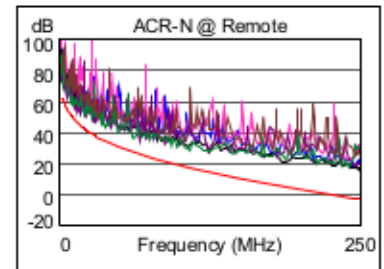
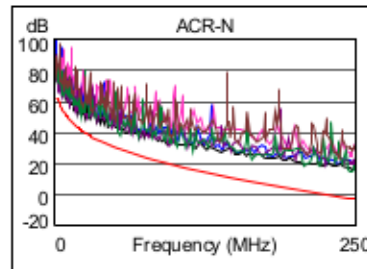
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-78	12-78
<b>NEXT (dB)</b>	3.8	3.7	6.8	8.5
Freq. (MHz)	3.1	66.3	247.0	244.0
Limit (dB)	64.8	43.0	33.2	33.3
Worst Pair	36	36	78	12
<b>PS NEXT (dB)</b>	5.9	4.9	7.5	9.0
Freq. (MHz)	3.3	29.5	247.0	244.0
Limit (dB)	62.0	46.1	30.2	30.3



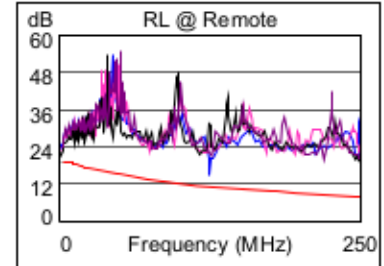
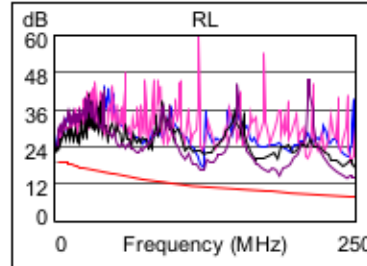
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	45-36	45-36
<b>ACR-F (dB)</b>	0.5	0.5	1.6	0.9
Freq. (MHz)	1.0	1.0	239.5	237.0
Limit (dB)	63.3	63.3	15.7	15.8
Worst Pair	36	36	36	45
<b>PS ACR-F (dB)</b>	1.8	1.7	4.1	4.2
Freq. (MHz)	1.0	1.0	239.5	239.5
Limit (dB)	60.3	60.3	12.7	12.7



<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-78	12-78
<b>ACR-N (dB)</b>	4.3	6.4	17.0	19.0
Freq. (MHz)	3.1	12.0	247.0	248.5
Limit (dB)	61.2	48.3	-2.5	-2.7
Worst Pair	36	36	12	12
<b>PS ACR-N (dB)</b>	6.2	6.5	16.2	15.4
Freq. (MHz)	3.3	5.4	250.0	244.5
Limit (dB)	58.4	53.8	-5.8	-5.2



<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12	12	78	12
<b>RL (dB)</b>	4.3	3.9	5.7	3.9
Freq. (MHz)	124.0	124.5	243.0	124.5
Limit (dB)	11.1	11.0	8.1	11.0



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