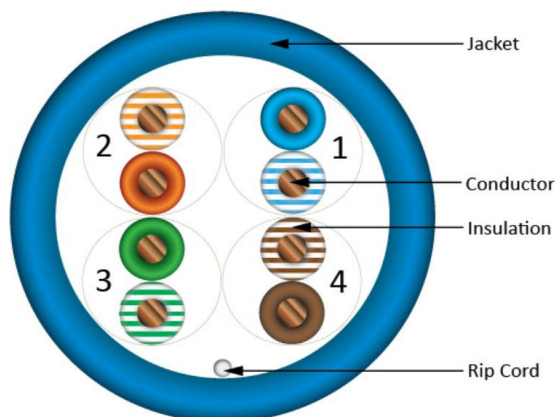
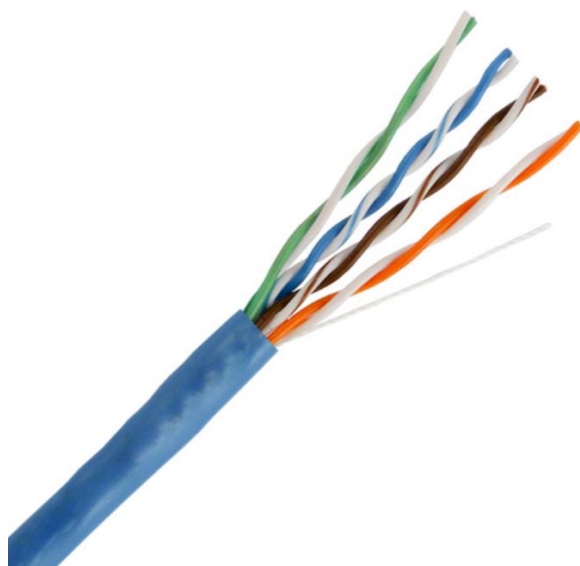


# UTP CAT5E LSZH CABLE



## DESCRIPTION

CAT5E 4-Pair UTP 24AWG Solid Bare Copper  
LSZH Jacket 305M

## FEATURES

- High-Performance Data Cable
- CAT5E Unshielded Twisted Pairs
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- TIA/EIA-568.C.2, ISO/IEC 11801

## APPLICATION

IEEE 802.3: 1000Base-T; 100Base-T; 10Base-T  
IEEE 802.5: 4/6 Mbps Token Ring  
Structure Cabling ,155Mbps ATM , ISDN  
Gigabit Ethernet

## MODEL

No	Length	Color
110210	1000ft(305m)	Gray
110211	1000ft(305m)	White
110212	1000ft(305m)	Red
110213	1000ft(305m)	Orange
110214	1000ft(305m)	Yellow
110215	1000ft(305m)	Green
110216	1000ft(305m)	Blue

## SPECIFICATION

### Technical Data

DC resistance	Max 10 Ω / 100m
Rated Voltage	30V
Reference Standard	EIA/TIA 568 & ISO/IEC 11801

### Conductor

AWG	24AWG
Conductor Diameter	4×2×1/0.47±0.01mm

### Insulation

Material	HDPE
AVG. Thickness	0.21 ± 0.01 mm
Insulation Diameter	0.90 ± 0.01mm

### High twisted & Ripcord

#### Jacket

AVG. Thickness	0.6 mm
Outer Diameter	5.2 ± 0.1mm
Color	Available
Marking	Available

### Color of Pairs

Pair 1	Blue	White-Blue
Pair 2	Orange	White-Orange
Pair 3	Green	White-Green
Pair 4	Brown	White-Brown

### Solid OFC

Bare Copper (100% Copper)	24AWG
Conductor Diameter	4×2×1/0.47±0.01mm

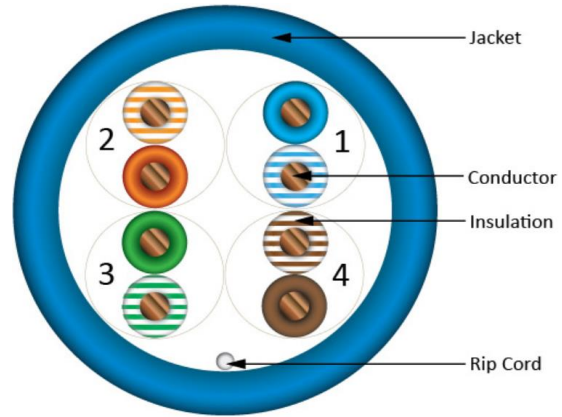
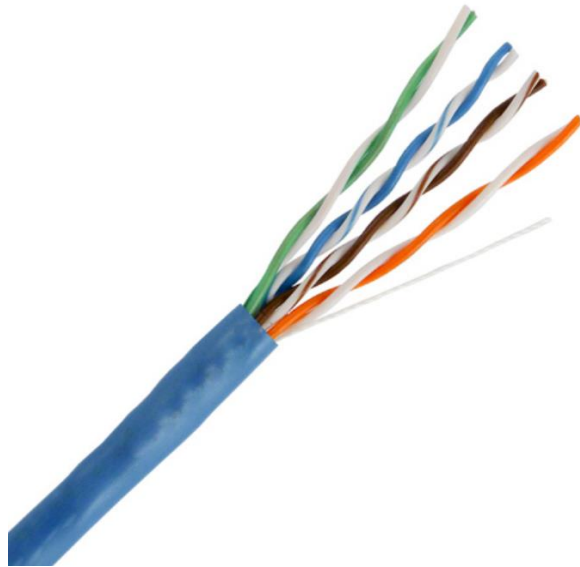
### HDPE

Material	PE
AVG. Thickness	0.21 ± 0.01 mm
Insulation Diameter	0.90 ± 0.01mm

### Yes

### LSZH ROHS

# UTP CAT5E LSZH CABLE



## PACKING

Inner box : OEM Pull out box  
Outer box : OEM Brown Carton



## PERFORMANCE

### Mechanical Properties

Bending Radius  $\geq 4 \times OD$  (without load)  
Temperature range during operation :  $-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$   
Reference Standard during installation :  $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$

### Electrical Properties

DC resistance 10ohm / 100 m at 20 °C  
Insulation Resistance 5000mΩ/km  
Resistance unbalance Max 5 % at 20 °C  
Mutual capacitance Max 5.6 nf / 100 m at 1kHz  
Characteristics impedance  $(100 \pm 15) \Omega$  at 1 ~ 100 Mhz  
Nominal velocity of propagation 67%  
Propagation delay  $\leq 535$  ns / 100 m  
Delay skew  $\leq 45$  ns / 100 m



**Cable ID: CAT5E UTP LSZH**

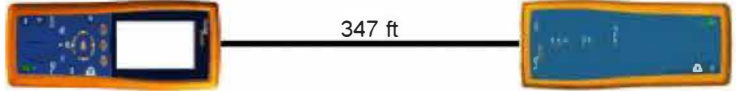
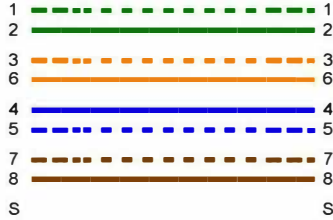
**Test Summary: PASS**

Date / Time: 03/20/2023 11:03:34am  
 Headroom: 6.3 dB (NEXT 12-36)  
 Test Limit: TIA Cat 5e Channel  
 Cable Type: Cat 5e U/UTP

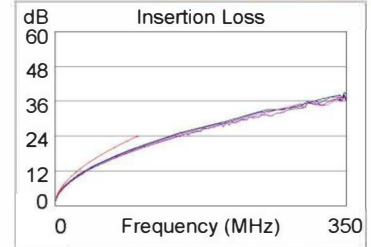
Operator: NEC FIELDING  
 Software Version: 2.7800  
 Limits Version: 1.9500  
 NVP: 69.0%

Model: DTX-1800  
 Main S/N: 9463009  
 Remote S/N: 9463010  
 Main Adapter: DTX-CHA001  
 Remote Adapter: DTX-CHA001

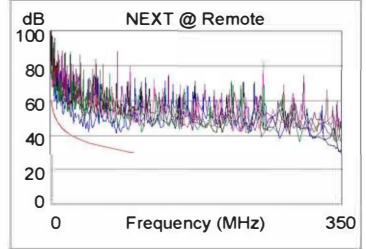
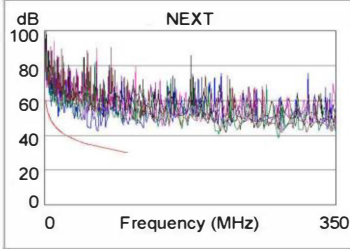
Wire Map (T568A)  
**PASS**



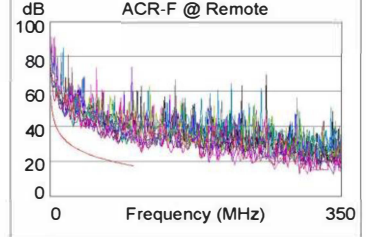
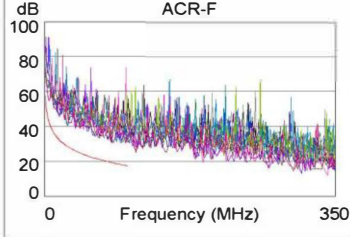
Length (ft), Limit 328	[Pair 78]	347
Prop. Delay (ns), Limit 555		525
Delay Skew (ns), Limit 50		14
Resistance (ohms)	[Pair 45]	22.4
Insertion Loss Margin (dB)	[Pair 45]	3.8
Frequency (MHz)	[Pair 45]	100.0
Limit (dB)	[Pair 45]	24.0



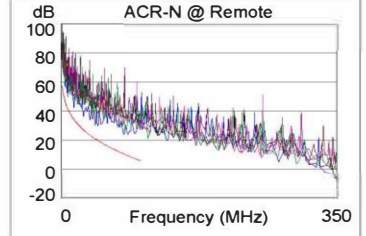
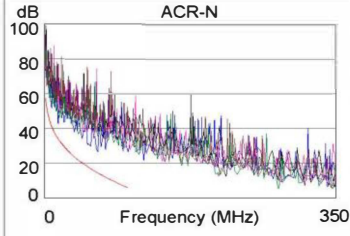
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12-36	12-36	12-36	12-36
<b>NEXT (dB)</b>	7.2	6.3	8.3	8.9
Freq. (MHz)	16.6	8.3	64.3	79.3
Limit (dB)	43.3	48.4	33.4	31.8
Worst Pair	12	36	12	12
<b>PS NEXT (dB)</b>	9.8	8.7	10.8	11.2
Freq. (MHz)	16.6	8.3	64.3	79.3
Limit (dB)	40.3	45.4	30.4	28.8



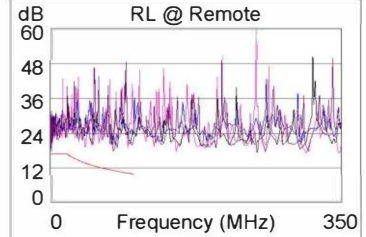
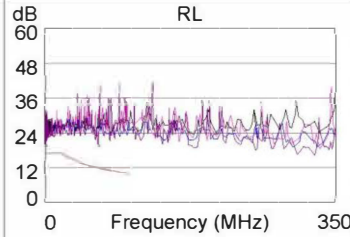
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-12	36-12	36-12	36-45
<b>ACR-F (dB)</b>	10.9	11.0	10.9	11.7
Freq. (MHz)	82.0	82.0	82.0	91.8
Limit (dB)	19.1	19.1	19.1	18.1
Worst Pair	36	36	36	36
<b>PS ACR-F (dB)</b>	11.9	11.0	13.5	11.0
Freq. (MHz)	1.0	80.8	100.0	80.8
Limit (dB)	54.4	16.3	14.4	16.3



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	12-36	12-36	12-36	12-36
<b>ACR-N (dB)</b>	8.6	7.3	11.6	13.5
Freq. (MHz)	16.6	8.3	64.3	85.8
Limit (dB)	34.1	41.9	14.5	9.2
Worst Pair	36	12	36	12
<b>PS ACR-N (dB)</b>	10.8	9.7	20.0	16.0
Freq. (MHz)	8.6	8.3	94.5	85.8
Limit (dB)	38.5	38.9	4.2	6.2



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36	36	78	78
<b>RL (dB)</b>	4.6	3.3	7.2	5.8
Freq. (MHz)	3.3	3.3	64.5	76.3
Limit (dB)	17.0	17.0	11.9	11.2



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