

TECHNICAL DATA SHEET : 1825 UTP CAT5E LSZH



Title	UTP CAT5E LSZH 24AWG × 4P	Publisher	12-Jul-17	
		Confirmer	Inspector	Producer
Publisher	Nextra Com			
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1.Application: This specification is applicable to 4P UTP LAN cable



2.Reference : the Client's specification

3. Construction:

Item	specification & Design	Diameter mm
Conductor	Material : Soft annealed bare copper wire	0.48±0.01
	Composing: 1/0.48	
insulation	Material: HDPE	0.87±0.05
	Color: White/blue, Blue; White/orange, Orange	
	White/green, Green; White/brown, Brown	
	Nominal wall : 0.2mm	
Twisted pair	Lay length : ≤30mm	1.74
Cable core	Composing : 4 number of Twisted pair stranded together to form the main core.	3.4±0.3
	Detail : As described in part 5(structure drawing)	
	Lay length : No more than 120mm	
Sheath	Material : LSZH	5.0±0.2
	There is a rip cord under the sheath	
	Nominal wall thickness of sheath : 0.45mm	

Jacket Legend : To Be Determined

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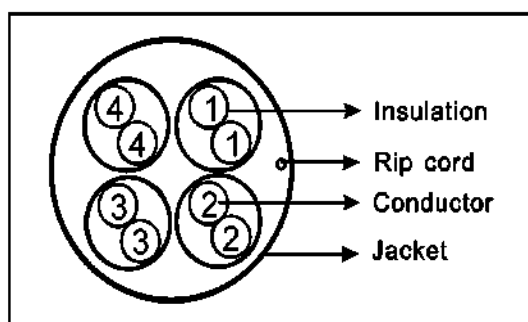
4. Electrical Performance (20°C)

Item	Parameter	Note
Conductor resistance	$\leq 11.5 \Omega/100m$	
Insulation resistance	$\geq 5000 M\Omega Km (DC 500V \text{ Charged } 1Min)$	
Voltage endurance	DC 1000V/min	
Mutual capacitance	$\leq 5.6 nF/100m$	
Core-core resistance unbalance	$\leq 5.0\%$	

High frequency performance

Item	Attenuation $\leq dB/100m$	RL $\geq dB/100m$	N E X T $\geq dB/100m$	P S N E X T $\geq dB/100m$	A C R-F $\geq dB/100m$	P S A C R-F $\geq dB/100m$	NOTE
1MHz	3.0	17.0	60.0	57.0	57.4	54.4	100m FLUKE TIA Cat5e Chanel Test
4MHz	4.5	17.0	53.6	50.6	45.3	42.3	
10MHz	7.1	17.0	47.0	44.0	37.4	34.4	
16MHz	9.1	17.0	43.6	40.6	33.3	30.3	
20MHz	10.2	17.0	42.0	39.0	31.4	28.4	
25MHz	11.4	16.0	40.4	37.4	29.4	26.4	
31.25MHz	12.9	15.1	38.7	35.7	27.5	24.5	
62.5MHz	18.6	12.1	33.6	30.6	21.5	18.5	
100MHz	24.0	10.0	30.1	27.1	17.4	14.4	

5. Structure drawing



6. Color of twisted pair (Arabic numerals in structure drawing stand for the twisted pair)

Purchaser's Engagement:

Date:

Signature:

No.	Color of insulation	
1	White/blue	Blue
2	White/orange	Orange
3	White/green	Green
4	White/brown	Brown