

TECHNICAL DATA SHEET: 1828 SFTP Cat6A LSZH



Title	S/FTP Cat6A LSZH 23AWG x 4P	Publisher	12-Jul-17	
		Confirmer	Inspector	Producer
Publisher	Nextra Com			
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1.Application This specification is applicable to the 4P S/FTP CAT6A lan cable

2.Reference: the Client's specification 3.Construction:



Item	Specification & Design	Diameter(mm) (mm)
Conductor	Material: Soft annealed bare copper wire	0.56±0.01
	Structure: 1/0.56	
Insulation	Material: PE-Foam/skin-PE	1.32±0.05
	Color: White/blue, Blue; White/orange, Orange White/green, Green; White/brown, Brown	
	Nominal wall : 0.385mm	
Twisted	Lay length: ≤40mm	2.80
	Each twisted pair is individually shielded with a metal foil	
Cabling	Composing: 4 twisted pair stranded together to form the main core.	6.3±0.5
	Detail: As described in part 6(structure drawing)	
	Lay length: ≤150mm	
	Braided Material: AA	
	Braided shielding:Weave density >30%	
Jacket	Material: LSZH	7.5±0.5
	There is a ripcord under the sheath	
	Nominal wall thickness of sheath: 0.45mm	
Marking	To Be Determined	

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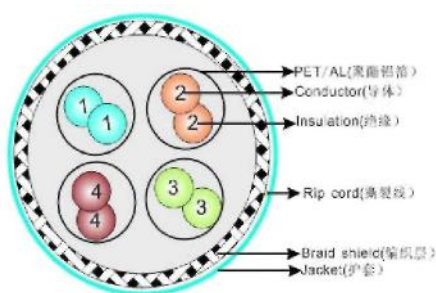
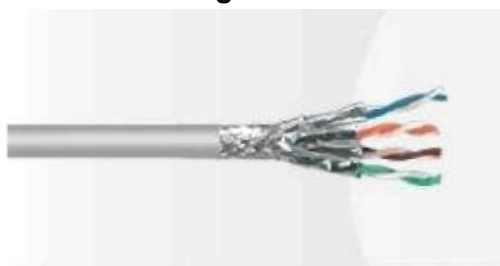
4. Electrical Property (20°C)

Item	Parameter	Note
Conductor resistance	$\leq 9.38\Omega/100m$	
Insulation resistance	$\geq 55000M\Omega Km(DC500V \text{ Charge } 1 \text{ minute})$	
Voltage endurance	DC 1000V/min without breakdown	
Mutual capacitance	$\leq 5.6nF/100m$	
Core-core resistance unbalance	$\leq 5.0\%$	

High frequency performance

Item Freq	Attenuation $\leq dB/100m$	RL $\geq dB/100m$	NEXT $\geq dB/100m$	PSNEXT $\geq dB/100m$	ACRF $\geq dB/100m$	PSACRF $\geq dB/100m$	Note
1MHz	3.0	19.0	65.0	62.0	63.3	60.3	100m FLUKE TIA CAT6A Chanel Test
4MHz	4.2	19.0	63.0	60.5	51.2	48.2	
8MHz	5.8	19.0	58.2	55.6	45.2	42.2	
10MHz	6.5	19.0	56.6	54.0	43.3	40.3	
16MHz	8.2	18.0	53.2	50.6	39.2	36.2	
20MHz	9.2	17.5	51.6	49.0	37.2	34.2	
31.25MHz	11.5	16.5	48.4	45.7	33.4	30.4	
62.5MHz	16.4	14.0	43.4	40.6	27.3	24.3	
100MHz	20.9	12.0	39.9	37.1	23.3	20.3	
200MHz	30.1	9.0	34.8	31.9	17.2	14.2	
250MHz	33.9	8.0	33.1	30.2	15.3	12.3	
350MHz	40.6	6.6	30.3	27.3	12.4	9.4	
500MHz	49.3	6.0	26.1	23.2	9.3	6.3	

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