

TECHNICAL DATA SHEET NEXTRA UTP-cat6A



Title	UTP Cat6A 23AWG×4P NEXTRA	Publisher	12/May/14	
		Confirmer	Inspector	Producer

1.Application: This specification is applicable to the 4P UTP CAT6A cable

2.Reference: According to the Client's specification

3.Construction:

Item	specification & Design	Diameter mm
Conductor	Material: Soft annealed bare copper wire	0.58±0.01
	Composing: 1/0.58	
insulation	Material: HDPE(high-density polyethylene)	1.02±0.05
	Color: White/blue, Blue; White/orange, Orange	
	White/green, Green; White/brown, Brown	
	Nominal wall □0.23mm	
Twisted pair	Lay length: ≤38mm	2.04
Framework	Material: PE	(4.7*0.8)±0.5
Cable core	Composing: 4 number of Twisted pair stranded together to form the main core.	5.0±0.3
	Detail: As described in part 5(structure drawing)	
	Lay length: ≤120mm	
Sheath	Material: PVC	6.5±0.5
	There is a rip cord under the sheath	
	Nominal wall thickness of sheath: 0.50mm	

Jacket marking: NEXTRA

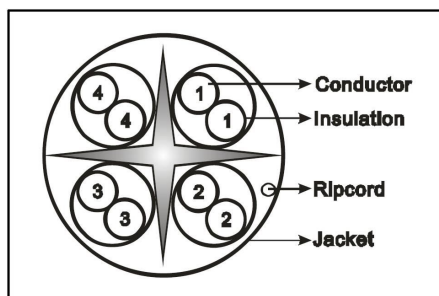
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4. Electrical Performance (20°C)

Low frequency and D.C							
Item		Parameter					Note
Conductor resistance		≤9.38Ω/100m					
Insulation resistance		≥5000MΩKm(DC500V Charged 1Min)					
Voltage endurance		DC 1500V/min					
Mutual capacitance		≤5.6nF/100m					
Core-core resistance unbalance		≤5%					
High frequency performance							
Item Freq	Attenuation ≤dB/100m	NEXT ≥dB/100m	RL ≥dB/100m	PS-NEXT ≥dB/100m	ACR-F ≥dB/100m	PSACR-F ≥dB/100m	Remark
1MHz	3.0	65.0	19.0	62.0	63.3	60.3	100m FLUKE Chanel Test
4MHz	4.2	63.0	19.0	60.5	51.2	48.2	
8MHz	5.8	58.2	19.0	55.6	45.2	42.2	
10MHz	6.5	56.6	19.0	54.0	43.3	40.3	
16MHz	8.2	53.2	18.0	50.6	39.2	36.2	
20MHz	9.2	51.6	17.5	49.0	37.2	34.2	
31.25MHz	11.5	48.4	16.5	45.7	33.4	30.4	
62.5MHz	16.4	43.4	14.0	40.6	27.3	24.3	
100MHz	20.9	39.9	12.0	37.1	23.3	20.3	
200MHZ	30.1	34.8	9.0	31.9	17.2	14.2	
250MHZ	33.9	33.1	8.0	30.2	15.3	12.3	
350MHZ	40.6	30.3	6.6	27.3	12.4	9.4	
500MHZ	49.3	26.1	6.0	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:

Signature:

Date:

Color of insulation	
With stripe	Non stripe
White/blue	Blue
White/orange	Orange
White/green	Green
White/brown	Brown