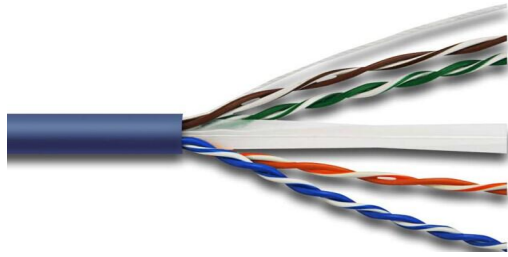




UTP 23AWG×4P Datasheet



1.Application:This specification is applicable to the 4P UTP CAT6 cable



2.Construction :

Item	specification & Design	Diameter mm
Conductor	Material: Soft annealed bare copper wire	0.56±0.01
	Composing: 1/0.56	
Insulation	Material: HDPE(high-density polyethylene)	1.0±0.05
	Color: White/Blue、Blue; White/Orange、Orange	
	White/Green、Green; White/Brown、Brown	
	Nominal wall: 0.23mm	
Twisted pair	Lay length: ≤30mm	2.00
Framework	Material: PE	(4.5*0.45)±0.5
Cable core	Composing: 4 number of Twisted pair stranded together to form the main core.	5.0±0.5
	Detail: As described in part 5(structure drawing)	
	Lay length: ≤120mm	
Sheath	Material: LSZH	6.2±0.5
	There is a rip cord under the sheath	
	Nominal wall thickness of sheath: 0.50mm	

Jacket marking: To Be Determined



4. Electrical Performance (20°C)

Low frequency and D.C						
Item		Parameter				Note
Conductor resistance		≤8.2Ω/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	Return loss ≥dB/100m	Attenuation ≤dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m	ACR-F ≥dB/100m	Note
1MHz	19.1	3.0	65.0	62.0	64.2	FLUKE TIA CAT6 Perm. Link
4MHz	21.0	3.5	64.1	61.8	52.1	
10MHz	21.0	5.5	57.8	55.5	44.2	
16MHz	20.0	7.0	54.6	52.2	40.1	
20MHz	19.5	7.9	53.1	50.7	38.2	
25MHz	19.0	8.9	51.5	49.1	36.2	
31.25MHz	18.5	10.0	50.0	47.5	34.3	
62.5MHz	16.0	14.4	45.1	42.7	28.3	
100MHz	14.0	18.6	41.8	39.3	24.2	
200MHz	11.0	27.4	36.9	34.3	18.2	
250MHz	10.0	31.1	35.3	32.7	16.2	

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

No.	Color of insulation	
	With stripe	Non stripe
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown