



岳豐科技股份有限公司

YFC-BONEAGLE ELECTRIC CO., LTD

桃園縣新屋鄉中山東路二段130巷12-9號  
 NO.12-9, 130TH LANE, SECTION 2, CHUNGSHAN  
 E. ROAD, HSINWU TAOYUAN, TAIWAN  
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## Product Specification

Product	CAT6 UTP SLD 23AWG×4P		NO.	B535273	Page	1 / 2
Edition	A0	Established Date	2004/7/9		Revised Date	
Approval		Checked		Finish		

### Configuration & Physical Characters:

1.Conductor	Material	Bare Copper		
	Size	23 AWG		
	Construction	1/0.56 ± 0.02 mm		
2.Insulation	Material	HDPE		
	Thickness	MIN at any point: 0.2 mm    MAX AVG: 0.248 mm		
	Diameter	1.00 ± 0.1 mm		
	Colors	Blue/White-Blue		
		Orange/White-Orange		
		Green/White-Green		
		Brown/White-Brown		
Elongation	MIN 300 %			
Tensile strength	MIN 1.682 Kg/mm <sup>2</sup>			
3.Sheath	Material	<input checked="" type="checkbox"/> PVC	<input type="checkbox"/> Non-PVC	
	Thickness	MIN at any point: 0.40 mm	MIN at any point: 0.4 mm	
		MIN AVG: 0.50 mm	MIN AVG: 0.50 mm	
	Diameter	6.4 ± 0.3 mm	6.4 ± 0.3 mm	
	Color	Assorted upon request		
	Elongation	MIN 100%	MIN 125%	
	Tensile strength	MIN 1.407 Kg/mm <sup>2</sup>	MIN 0.917 Kg/mm <sup>2</sup>	
	Aging at 100 for 168Hrs	Min elongation retention:50%		Min elongation retention:75%
		Min tensile strength retention:75%		Min tensile strength retention:70%
	<b>Remark</b>	The requirement of European standard EN 71 Part 3:1994		
Element	Lead (Soluble)	< 5		
	Antimony (Soluble)	< 5		
	Arsenic (Soluble)	< 2.5		
	Barium (Soluble)	< 10		
	Cadmium (Soluble)	< 5		
	Chromium (Soluble)	< 5		



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	Element	Mercury (Soluble)	< 5		
		Selenium (Soluble)	< 5		
4.Marking		According to Production Specifications			
5.Flame Test		Burning five times, every time is less than 60 second and paper flag can't be burned.			
(PS): " + " Mould separate					

### Electric Characters :

1.Spark Test		2000 ± 250 V ac			
2.Dielectric Strength		2500 V dc / 3 seconds			
3.Insulation Resistance Test		MIN 150 M /Km			
4.Conductor Resistance		MAX 7.91 /100m at 20			
5.Resistance Unbalance		MAX 2%			
6.Capacitance Unbalance		MAX 330 pF/100m			
7.Mutual Capacitance		MAX 5600 pF/100m			
8.Impedance	64kHz	125 ± 20%			
	1~250MHz	100 ± 15%			
9.Attenuation & Near end cross-talk		Attenuation (dB/100 meters at 20 ),max	Next (dB),min	Power Sum (dB),min	
	1MHz	--	66.0*	64.0*	
	4MHz	3.8*	65.3*	63.3*	
	10MHz	6.0*	59.3*	57.3*	
	16MHz	7.6*	56.2*	54.2*	
	20MHz	8.5*	54.8*	52.8*	
	31.25MHz	10.7*	51.9*	49.9*	
	62.5MHz	15.5*	47.4*	45.4*	
	100MHz	19.9*	44.3*	42.3*	
	155MHz	25.3*	41.4*	39.4*	
	200MHz	29.2*	39.8*	37.8*	
	250MHz	33.0*	38.3*	36.3*	

The asterisked(\*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula :

$$NEXT(f \text{ MHZ}) = NEXT(0.772) - 15 \text{ LOG}_{10}(f \text{ MHZ} / 0.772)$$