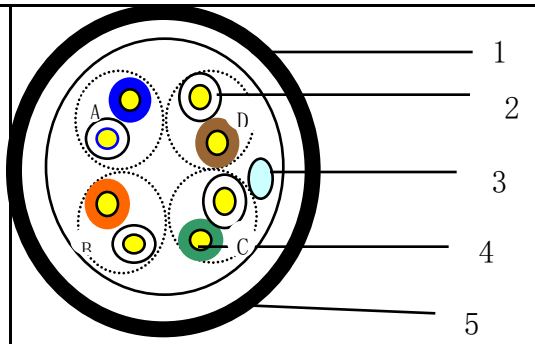
CAT5E UTP Outdoor Cable Specification

dLux®

Product Specification

Product	CAT5E CU 4P 24AWG Soild Outdoor	NO.	20101013-178	Page	2 for 3
ENG. DEP.	FINISH	Approval		CUSTOMER APPROVAL	
	Ms. Lemon				

Configuration & Physical Characters

Construction Description		A. Blue/white-blue	
		B. Orange/white-orange	
		C. Green/white-green	
		D. Brown/white-brown	
		1PVC	
		2. Insulation	
		3. rip-cord	
1. Conductor	Materail	Pure copper 99.99%	4. onductor
	Size	24AWG	5. PE
	OD	0.5±0.01mm	
2. Insulation	Materail	HD-PE	
	Thickness	0.19mm	
	Diameter	0.9±0.02mm 偏心率≤3%	
	Colors	Blue/white-blue	
		Orange/white-orange	
		Green/white-green	
		Brown/white-brown	
	Elongation rate	Min.300%	
	Ten sile	Min.122kg/mm2	
3. Twist Pair	A. 12.49mm Z向	Blue×white-blue	
	B. 16.35mm Z向	Orange×white-orange	
	C. 11.7mm Z向	Green×white-green	
	D. 19.6mm Z向	Brown×white-brown	
	Materail	PVC	

4. Jacket	Thickness	0.5±0.01mm	
	Diameter	5.0±0.15mm	
	Elongation rate		Min.125%
	Ten sile		Min.1.41kg/mm2
5.PE	Thickness	0.5±0.01mm	
	Diameter	5.8±0.01mm	
6. Priting Marking	OEM		

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Electrical Characteristics

1. Temperature Rating		75° C		
2. Spare Test		2000±250V		
3 Dielectric Strength		2500V dc/3 seconds		
4. Insulation Resistance Test		MIN 150MΩ/KM		
5. Conductor Resistance		MAX 9.38Ω/100m at20°C		
6.Resistance Unbalance		MAX 5%		
7. Capacitance Unbalance		MAX 300pf/100M		
8. Mutual Capacitance		MAX 5600pf/100M		
9.Impedance	64kHz	125Ω±20%		
	1~250MHz	100Ω±15%		
10.Attenuation & Near end cross- talk		Attenuation (dB/100M at20° C)MAX	Next (dB).MIN	Power Sum (dB).MIN
	1MHz	*	66.0*	64.0*
	4MHz	4.6*	65.3*	63.3*
	10MHz	7.2*	59.3*	57.3*
	16MHz	9.1*	56.2*	54.2*
	20MHz	10.2*	54.8*	52.8*
	31.25MHz	12.8*	51.9*	49.9*
	62.5MHz	18.6*	47.4*	45.4*
	100MHz	23.9*	44.3*	42.3*
	155MHz	30.4*	41.4*	39.4*
	200MHz	35.1*	39.8*	37.8*
	250MHz	39.6*	38.3*	36.3*

The asterisked (*) value are for information only. The minimum Next coupling loss for any

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:

$NEXT(fMHZ) \geqq NEXT(0.722) - 15LOG_{10}(fMHZ/0.772)$