

# HANGZHOU XINGFA TRANSMISSION EQUIPMENT CO., LTD

<b>Product Description:</b> Rated temperature: 60°C, 75°C, 90°C Reference Standard: ETL Bare solid copper conductor Rohs/REACH complied PVC Jacket Flame Test: CM, CMX Installation temperature: -30°C ~ +50°C				<b>Application:</b> 100Base-TX 100Base-T 100VG-AnyLAN 1000Base-T (Gigabit Ethernet) 1000Base-TX ATM			
Content of the Data Sheet							
Category	UTP CAT5E-4P PVC						
Test Standard	ISO/IEC11801、TIA-568-C.2、YD/T1019						
Conductor	Material	Solid-Bare copper					
	Nom.O.D.(mm)	0.500	up	+0.005			
			down	-0.005			
Insulation	Material	HDPE					
	Diameter	0.88 ± 0.03mm					
Sheath	Thickness	0.50 ± 0.05 mm					
	External O.D.	5.0 ± 0.4 mm					
	Surface	Clean, Frap, Satiation					
	Material	PVC					
	Color	According to the requires					
Surface Printing	Letter height	3.0 ± 0.3mm					
	Color	Black or as clients' request					
	Print error & Space	≤ ± 0.5%, 1m					
Core Color	1 White- Blue /Blue	2 White-Orange /Orange					
	3 White- Green /Green	4 White- Brown /Brown					
Packing	305M/Pull Box, 2Boxes/Cartron						
Carton dimension	35cm*35cm*20cm						
Packing length	(305 ± 1.5)m						
Rip-cord	Yes	Drain wire	No				

Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥ 13.5
		Elongation(%)	≥ 150
	Aging Period(°C×hrs)	100°C × 24h × 7d	
	After Aging	Tensile Strength(Mpa)	≥ 12.5
		Elongation(%)	≥ 125
	Cold bend(-20±2°C×4h)	8×Cable O.D., No visible cracks	
Electrical Characteristics (20°C)	1.0-100.0MHz	Impedance(Ω)	100 ± 15
	1.0-100.0MHz	Delay Shew (ns/100m)	≤ 45
	NVP	69%	
	Capacitance(nF/100m) max:	5.6	
	DC Resistance(Ω/100m) max	9.5	
	DC Conductor Resistance Unbalance(%) max	5.0	

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Technical Performance (100m):								
Frequency (MHz)	RL ≥dB	ATT(20℃) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.0	65.3	570.00	1	62.3	63.8	60.8
4.0	23.0	4.1	56.3	552.00	4	53.3	51.8	48.8
8.0	24.5	5.8	51.8	546.73	8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	545.38	10	47.3	43.8	40.8
16.0	25.0	8.2	47.2	543.00	16	44.4	39.7	36.7
20.0	25.0	9.3	45.8	542.05	20	42.8	37.8	34.8
25.0	24.3	10.4	44.3	541.20	25	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	31.25	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	62.5	35.4	27.9	24.9
100	20.1	22.0	35.3	537.60	100	32.3	23.8	20.8