
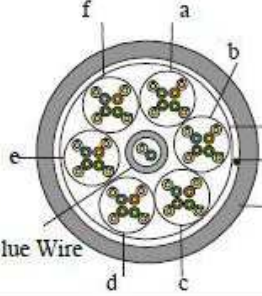


# TECHNICAL DATA SHEET

Code : Cat5-25pairs

## REF : Indoor telephone cable - category 5 - 25 Pair Unshielded - PVC Sheath

Sheath Printing	It will be printed as customer's requirement with batch produce.			  <p>Polyester Rip cord Sheath PVC Jacket Blue, White/Blue Wire</p>				
Category	UTP/CAT5-25P-PVC							
Test Standard	ISO/IEC11801, TIA/EIA 568B & YD/T1019-2001							
1. Conductor	Material	SOLID-Bare Copper						
	Nom. O.D. (mm)	0.50	<table border="1"> <tr> <td>Up</td> <td>+0.005mm</td> </tr> <tr> <td>Down</td> <td>-0.005mm</td> </tr> </table>	Up	+0.005mm	Down	-0.005mm	
Up	+0.005mm							
Down	-0.005mm							
2. Insulation	Material	HDPE						
	Diameter	0.90±0.02mm						
Color	A. Blue, White-Blue	B. Orange, White-Orange						
	C. Green, White-Green	D. Brown, White-Brown						
3. Rip-cord	Yes	Drain wire	No					
4. Shielded	Polyester							
5. Sheath	Thickness	1.0±0.2 mm						
	External O.D.	13.2±0.4 mm						
	Surface	Clean, Frap, Satiation						
	Material	PVC (complies RoHS)						
	Color	Multiple						
Surface Printing	Letter height	3.0±0.3mm						
	Color	Black						
	Print error & Space	≤±0.5%, 1m						
Packing	Drum in Carton							
Packing length	305±1.5m / 500±2.5m							
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)	No visible cracks						
Electrical Characteristics (20°C)	1.0-100.0MHz, Characteristic impedance (Ω)	100 ± 15						
	1.0-100.0MHz, Delay Shew	20°C (ns/100m) ≤ 45						
	Linear resistance 20°C (Ω/100m) max	9.38						
	Imbalance of linear resistance (%) max	1	2.5					
		4	2.5					
		8	2.5					

Technical Performance (100m): (20°C)				
(MHz)	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ ns
1	20.0	2.0	62.3	570.00
4.0	23.0	4.1	53.3	552.00
8.0	24.5	5.8	48.8	546.73
10.0	25.0	6.5	47.3	545.38
16.0	25.0	8.2	44.2	543.00
20.0	25.0	9.3	42.8	542.05
25.0	24.3	10.4	41.3	541.20
31.25	23.6	11.7	39.9	540.44
62.5	21.5	17.0	35.4	538.55
100	20.1	22.0	32.3	537.60

Sheath Physical Properties				
(MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB	
1	62.3	61.0	61.0	
4	53.3	49.0	49.0	
8	48.8	42.9	42.9	
10	47.3	41.0	41.0	
16	44.4	36.9	36.9	
20	42.8	35.0	35.0	
25	41.3	33.8	33.0	
31.25	39.9	31.1	31.1	
62.5	35.4	25.1	25.1	
100	32.3	21.0	21.0	

**Note: Structure:** a. be tied up with White/Blue Identification tape, b. be tied up with White/Orange Identification tape, c. be tied up with White/Green Identification tape, d. be tied up with White/Brown Identification tape, e. be tied up with White/Gray Identification tape, f. be tied up with Red/Blue Identification tape,