

# TECHNICAL DATA SHEET

## Category 5e-UTP 4pair LSOH



Sheath Printing	VELOCITY PREMIUM C5E UTP 24AWG SOLID LSZH 4PR TIA/EIA-568-B.2-1 NVP 67% ****M				
Category	305m Cat5e UTP LSZH (Vio / Org / Blu / Grn / Yel / Red)				
Test Standard	ISO/IEC11801、TIA/EIA 568B YD/T1019-2001				
1. Conductor	Material	SOLID-Bare Copper			
	Nom. O.D. (mm)	0.490	Up	+0.005	
			Down	-0.005	
2. Insulation	Material	HDPE			
	Diameter	0.88 ± 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. Sheath	Thickness	0.50 ± 0.05 mm			
	External O.D.	5.0 ± 0.3 mm			
	Surface	Clean,Frap,Satiation			
	Material	LSZH (Complies ROHS)			
	Color	Violet RAL 4005			
Surface Printing	Letter height	3.0 ± 0.3mm			
	Color	Black			
	Print error & Space	≤ ± 0.5%, 1m			
Packing	Spool Box 305m				
Carton dimension	35*35*20cm				
Packing length	305 ± 1.5m				
Sheath Physical Properties	Before Aging	Tensile Strength (MPA)	≥ 10		
		Elongation (%)	≥ 125		
	Aging Period (°C × hrs)	100°C × 24h × 7d			
	After Aging	Tensile Strength (MPA)	≥ 8		
		Elongation (%)	≥ 100		
	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 Skew 20°C (ns/100m)	≤ 45			
	DC Resistance 20°C (Ω/100m) max	9.5			
	DC Conductor Resistance Unbalance (%)max	5.0			
Technical Performance (100m):					
		RL	ATT	NEXT	DELAY
(MHz)		≥ dB	≤ dB	≥ dB	≤ ns
1		20.0	2.0	65.3	570.00
4.0		23.0	4.1	56.3	552.00
8.0		24.5	5.8	51.8	546.73
10.0		25.0	6.5	50.3	545.38
16.0		25.0	8.2	47.2	543.00
20.0		25.0	9.3	45.8	542.05
25.0		24.3	10.4	44.3	541.20
31.25		23.6	11.7	42.9	540.44
62.5		21.5	17.0	38.4	538.55
100		20.1	22.0	35.3	537.60
		PSNEXT	ELFEXT	PSELFEXT	
(MHz)		≥ dB	≥ dB	≥ dB	
1		62.3	64.0	61.0	
4		53.3	52.0	49.0	
8		48.8	45.9	42.9	
10		47.3	44.0	41.0	
16		44.4	39.9	36.9	
20		42.8	38.0	35.0	
25		41.3	35.8	33.0	
31.25		39.9	34.1	31.1	
62.5		35.4	28.1	25.1	
100		32.3	24.0	21.0	
<b>Velocity Data Cable</b>					