

TECHNICAL DATA SHEET

Category 5e-UTP 4pair PVC Grey



Sheath Printing	VELOCITY PREMIUM C5E UTP 24AWG SOLID PVC 4PR TIA/EIA-568-B.2-1 NVP 67% ****M				
Category	Cat5e UTP PVC Grey 305m				
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	0.87 ± 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	PVC (Complies ROHS)			
	Color	Grey – RAL 7035			
Surface Printing	Letter height	3.0 ± 0.3mm			
	Color	Black			
	Print error & Space	≤ ± 0.5%, 1m			
Packing	Spool Box				
Carton dimension	35*35*20cm				
Packing length	305 ± 1.5m				
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		
	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	
Velocity Data Cable					