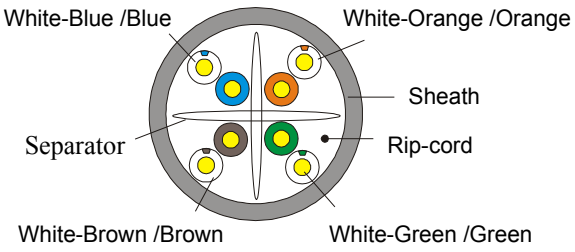
TECHNICAL DATA SHEET

Category 6-UTP 4pair PVC Grey

Sheath Printing	VELOCITY PREMIUM C6 UTP 24AWG SOLID PVC 4PR TIA/EIA-568-B.2-1 NVP 67% ****M			
Category	Cat6 UTP PVC Grey 305m			
Test Standard	ISO/IEC11801、TIA/EIA-568-C.2 YD/T1019-2001			
Conductor	Material	oxygen free copper		
	NOM: O.D.(mm)	0.565	up	+0.005
			down	-0.005
Insulation	Material	HDPE		
	Diameter	0.95±0.03mm		
Sheath	Thickness	0.55±0.05 mm		
	External O.D.	6.1±0.4 mm		
	Surface	Clean		
	Material	PVC (Complies ROHS)		
	Color	Grey RAL7035		
Surface Printing	Letter height	3.0±0.3mm		
	Color	Black		
	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	Reel in a Carton			
Carton Dimension	40.5*40.5*21cm			
Packing length	305±1.5m			
Rip-cord	Yes	Drain wire	Yes	
Sheath Physical Properties	Before Aging Tensile Strength (MPA) ≥13.5 Elongation(%) ≥150			
	Aging Period (℃×hrs) 100℃×24h×7d			
	After Aging Tensile Strength(MPA) ≥12.5 Elongation(%) ≥125			
	Cold bend(-20±2□×4h) 8×Cable O.D., No visible cracks			
Electrical Characteristics (20□)	1.0-250.0MHz Impedance ((Ω) 100±15			
	1.0-250.0MHz Delay Skew (ns/100m) ≤45			
	DC Resistance (Ω/100m) max 9.5			
	DC Conductor Resistance Unbalance (%) max 5.0			



Technical Performance (100m):

Frequency (MHz)	RL ≥dB	ATT(20□) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
1	20.0	2.03	74.3	570.00
4.0	23.0	3.78	65.3	552.00
8.0	24.5	5.32	60.8	546.73
10.0	25.0	5.95	59.3	545.38
16.0	25.0	7.55	56.2	543.00
20.0	25.0	8.47	54.8	542.05
25.0	24.3	9.51	53.3	541.20
31.25	23.6	10.67	51.9	540. 44
62.5	21.5	15.38	47.7	538.55
100	20.1	19.80	44.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	58.8	49.7	46.7
10	57.3	47.8	44.8
16	54.2	43.7	40.7
20	52.8	41.8	38.8
25	41.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8

Velocity Data Cable