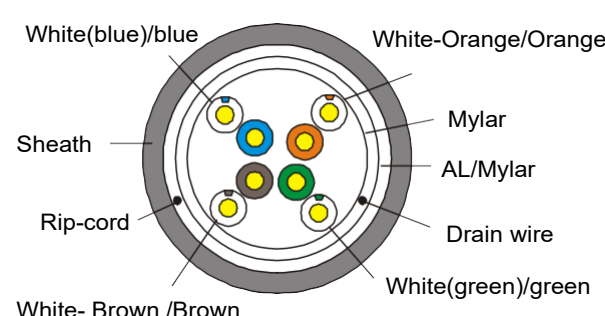




Content of the Data Sheet						
Sheath Printing	TBD					
Customer No.		Customer Reference				
Category	F/UTP CAT5E-4P-PE					
Reference Standard	ISO/IEC11801, TIA-568-C.2					
Conductor	Material	Solid-Bare Copper				
	Nom.O.D. (mm)	0.500	up	+0.005		
			down	-0.005		
Insulation	Material	HDPE				
	Diameter	1.00±0.05 mm				
Screening Material	Mylar + AL/Mylar					
Sheath	Thickness	0.55±0.05 mm				
	External O.D.	6.2±0.4 mm				
	Surface	Clean, Frap, Satiation				
	Material	LDPE (complies RoHS)				
	Color	Black				
Surface Printing	Letter height	3.0±0.3 mm				
	Color	White				
	Print error & Space	≤±0.5%, 1 m				
Core Color	1. White-Blue /Blue	2. White-Orange /Orange				
	3. White-Green /Green	4. White-Brown /Brown				
Packing	Wooden Tray & Carton					
Carton dimension	According to the requires					
Packing length	305±1.5 m					
Rip-cord	Yes	Drain wire	Yes			
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0			
		Elongation (%)	≥350			
	Aging Period (°C × hrs.)	100°C × 24h × 10d				
	After Aging	Elongation (%)	≥300			
	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 Skew (ns/100m)	≤45			
	unbalanced-to-ground capacitance (pf/100m) max		330			
	DC Resistance (Ω/100m) max		9.5			
	DC Conductor Resistance Unbalance (%) max		5.0			



Technical Performance (100m):					
Frequency (MHz)	RL	ATT (20°C)	NEXT	PHASE DELAY	
	≥dB	≤dB	≥dB	≤ns	
1	20.0	—	65.3	570.00	
4	23.0	4.1	56.3	552.00	
8	24.5	5.8	51.8	546.73	
10	25.0	6.5	50.3	545.38	
16	25.0	8.2	47.2	543.00	
20	25.0	9.3	45.8	542.05	
25	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	

Frequency (MHz)	PSNEXT	ELFEXT	PSELFEXT
	≥dB	≥dB	≥dB
1	62.3	63.8	60.8
4	53.3	51.8	48.8
8	48.8	45.7	42.7
10	47.3	43.8	40.8
16	44.4	39.7	36.7
20	42.8	37.8	34.8
25	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.9	24.9
100	32.3	23.8	20.8