



Content of the Data Sheet					
Sheath Printing	TBD				
Customer No.		Customer Reference			
Category	F/UTP-C 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	Steel Wires	1.2 mm		
Sheath	Thickness	0.55±0.05 mm			
	External O.D.	(6.4/2.6) ± 0.4 mm			
	Surface	Clean, Frap, Satiation			
	Material	LDPE (complies RoHS)			
	Color	Black			
Surface Printing	Letter height	3.0±0.3mm			
	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 dimension	---				
Packing length	305±1.5m				
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 20°C (Ω/100m) max		9.5		
	DC Conductor Resistance Unbalance (%) max		5.0		

Technical Performance (100m):				
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	Phase DELAY ≤ns
1	20.0	—	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

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥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