

TECHNICAL DATA SHEET

REF: UTP 4 pairs cable - Category 6 - 250MHz - PVC Sheath

Sheath Printing	TYCAB CAT6 ACA N1155 DPA81051 101248			Meter Marking					
Category	UTP/CAT6-4P-PVC								
Test Standard	ISO/IEC11801, TIA/EIA 568B, YD/T1019-2001								
1. Conductor	Material	SOLID-Bare Copper							
	Nom. O.D. (mm)	0.550	Up						+0.005
Down			-0.005						
2. Insulation	Material	HDPE							
	Diameter	1.01 ± 0.03mm							
Color	A.Blue, White-Blue	B.Orange,White-Orange							
	C.Green,White-Green	D.Brown, White-Brown							
3.Plastic Separator	O.D 4.5mm, Nom thickness : 0.45mm, complies RoHS								Technical Performance (100m):
4. Rip-cord	Yes	Drain wire	No	(MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	
5. Sheath	Thickness	0.55 ± 0.05 mm		1	20.0	1.9	74.0	570.00	
	External O.D.	6.2 ± 0.4 mm		4.0	23.0	3.7	65.0	552.00	
	Surface	Clean, Frap, Satiation		8.0	24.5	5.3	60.7	546.73	
	Material	PVC (RoHS compliant)		10.0	25.0	5.9	59.0	545.38	
	Color	Multiple		16.0	25.0	7.5	56.0	543.00	
Surface Printing	Letter height	3.0 ± 0.3mm		20.0	25.0	8.4	55.0	542.05	
	Color	Black		25.0	24.3	9.5	53.3	541.20	
	Print error & Space	≤ ± 0.5%, 1m		31.25	23.6	10.6	52.0	540.44	
Packing	Carton, pallet			62.5	21.5	15.4	47.0	538.55	
Carton dimension	41*41*22cm			100	20.1	19.8	44.0	537.60	
Packing length	305 ± 1.5m			200	18.0	29.0	40.0	536.54	
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥ 13.5	250	17.3	32.8	38.0	536.27	
		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			8	48.8	49.9	46.9		
Electrical Characteristics (20°C)	1.0-250.0MHz, Characteristic impedance (Ω)	100 ± 15		10	57.3	48.0	45.0		
		1.0-250.0MHz, Delay Shew 20°C (ns/100m)	≤ 45		16	54.2	43.9	40.9	
	DC Resistance 20°C (Ω/100m) max		9.5		20	52.8	42.0	39.0	
		DC Conductor Resistance Unbalance (%) max	5.0		25	41.3	40.0	37.0	
	PSNEXT		≥ dB		31.25	49.9	38.1	35.1	
			ELFEXT	≥ dB		62.5	45.4	32.1	29.1
	PSELFEXT	≥ dB		100	42.3	28.0	25.0		
				200	37.8	22.0	19.0		
			250	36.3	20.0	17.0			