

TECHNICAL DATA SHEET

REF: UTP 4 pairs cable - Category 5e - 100MHz – PVC+PE Sheath



Sheath Printing	It will be printed as customer's requirement with batch produce.																																																																				
Category	CCA -UTP/CAT5e-4P-PVC+PE																																																																				
Test Standard	ANSI/TIA -568 (Reference resources)																																																																				
1. Conductor	Material	Bare Copper clad Aluminium (35% copper, 68% Conductivity)			<table border="1"> <thead> <tr> <th></th> <th>RL</th> <th>ATT</th> <th>NEXT</th> <th>PRO.DELAY</th> </tr> <tr> <th>(MHz)</th> <th>≥dB</th> <th>≤dB</th> <th>≥dB</th> <th>≤ns</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20.0</td> <td>2.0</td> <td>65.3</td> <td>570.00</td> </tr> <tr> <td>4.0</td> <td>23.0</td> <td>4.1</td> <td>56.3</td> <td>552.00</td> </tr> <tr> <td>8.0</td> <td>24.5</td> <td>5.8</td> <td>51.8</td> <td>546.73</td> </tr> <tr> <td>10.0</td> <td>25.0</td> <td>6.5</td> <td>50.3</td> <td>545.38</td> </tr> <tr> <td>16.0</td> <td>25.0</td> <td>8.2</td> <td>47.2</td> <td>543.00</td> </tr> <tr> <td>20.0</td> <td>25.0</td> <td>9.3</td> <td>45.8</td> <td>542.05</td> </tr> <tr> <td>25.0</td> <td>24.3</td> <td>10.4</td> <td>44.3</td> <td>541.20</td> </tr> <tr> <td>31.25</td> <td>23.6</td> <td>11.7</td> <td>42.9</td> <td>540.44</td> </tr> <tr> <td>62.5</td> <td>21.5</td> <td>17.0</td> <td>38.4</td> <td>538.55</td> </tr> <tr> <td>100</td> <td>20.1</td> <td>22.0</td> <td>35.3</td> <td>537.60</td> </tr> </tbody> </table>						RL	ATT	NEXT	PRO.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
		RL	ATT	NEXT						PRO.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																																																																	
Nom. O.D. (mm)	0.50	Up	+0.015	Down	-0.015																																																																
2. Insulation	Material	HDPE																																																																			
	Diameter	0.90±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.Inner Jacket	Material	PVC RoHS compliant																																																																		
Sheath	4.Inner Jacket	Color	Multiple																																																																		
		Thickness	0.50±0.05 mm																																																																		
	5.Exter Jacket	Thickness	0.55±0.05 mm																																																																		
		External O.D.	6.3±0.3 mm																																																																		
		Surface	Clean,Frap,Satiation																																																																		
		Material	PE RoHS compliant																																																																		
		Color	Black																																																																		
		Letter height	3.0±0.3mm																																																																		
Color	White																																																																				
Print error & Space	±0.5%, 1m																																																																				
Packing	Plastic shaft plate / Pull box				PSNEXT	ELFEXT	PSELFEXT																																																														
Carton Size	30*10*21.8CM/31.8*22.8*33.5CM				(MHz)	≥dB	≥dB	≥dB																																																													
Packing length	305±1.5m				1	62.3	64.0	61.0																																																													
PVC Sheath	Before Aging	Tensile Strength (Mpa)	≥13.5		4	53.3	52.0	49.0																																																													
		Elongation (%)	≥150		8	48.8	45.9	42.9																																																													
Physical Properties	Aging Period (°C×hrs)	100°C×24h×7d			10	47.3	44.0	41.0																																																													
	After Aging	Tensile Strength (Mpa)	≥12.5		16	44.4	39.9	36.9																																																													
PE Sheath	Before Aging	Tensile Strength (Mpa)	≤10.0		20	42.8	38.0	35.0																																																													
		Elongation (%)	≤350		25	41.3	35.8	33.0																																																													
Physical Properties	Aging Period (°C×hrs)	100°C×24h×10d			31.25	39.9	34.1	31.1																																																													
	After Aging	Elongation (%)	≤300		62.5	35.4	28.1	25.1																																																													
	Cold bend (-20±2°C×4h)	No visible cracks			100	32.3	24.0	21.0																																																													
Electrical Characteristics (20°C)	1.0-250.0MHz, Characteristic impedance (Ω)				100±15																																																																
	1.0-250.0MHz, Delay Skew 20°C(ns/100m)				≤45																																																																
	DC Resistance 20°C(Ω/100m) max				14.2																																																																
	DC Conductor Resistance Unbalance (%)max				5.0																																																																