

# TECHNICAL DATA SHEET

## REF: UTP 4 pairs cable - Category 6 - 250MHz – PVC+PE Sheath



Sheath Printing	It will be printed as customer's requirement with batch produce.																																																																																																																								
Category	CCA -UTP/CAT6-4P-PVC+PE																																																																																																																								
Test Standard	ANSI/TIA -568 (Reference resources)																																																																																																																								
1. Conductor	Material	Bare Copper clad Aluminium( 35 % copper, 68%Conductivity )			<b>Technical Performance (FLUKE Link 90m±3m):</b>  <table border="1"> <thead> <tr> <th>(MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>PRO.DELAY ≤ns</th> <th>PSNEXT ≥dB</th> <th>ELFEXT ≥dB</th> <th>PSELFEXT ≥dB</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>2.03</td><td>74.3</td><td>570.00</td><td>72.3</td><td>67.8</td><td>64.8</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.78</td><td>65.3</td><td>552.00</td><td>63.3</td><td>55.8</td><td>52.8</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.32</td><td>60.8</td><td>546.73</td><td>58.8</td><td>49.7</td><td>46.7</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.95</td><td>59.3</td><td>545.38</td><td>57.3</td><td>47.8</td><td>44.8</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.55</td><td>56.2</td><td>543.00</td><td>54.2</td><td>43.7</td><td>40.7</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.47</td><td>54.8</td><td>542.05</td><td>52.8</td><td>41.8</td><td>38.8</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.51</td><td>53.3</td><td>541.20</td><td>52.8</td><td>41.8</td><td>38.8</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.67</td><td>51.9</td><td>540.44</td><td>52.8</td><td>41.8</td><td>38.8</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.38</td><td>47.7</td><td>538.55</td><td>49.9</td><td>37.9</td><td>34.9</td></tr> <tr><td>100</td><td>20.1</td><td>19.80</td><td>44.3</td><td>537.60</td><td>45.4</td><td>31.9</td><td>28.9</td></tr> <tr><td>200</td><td>18.0</td><td>28.98</td><td>39.8</td><td>536.54</td><td>42.3</td><td>27.8</td><td>24.8</td></tr> <tr><td>250</td><td>17.3</td><td>32.85</td><td>38.3</td><td>536.27</td><td>37.8</td><td>21.8</td><td>18.8</td></tr> <tr><td>250</td><td>17.3</td><td>32.85</td><td>38.3</td><td>536.27</td><td>36.3</td><td>19.8</td><td>16.8</td></tr> </tbody> </table>					(MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PRO.DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	1	20.0	2.03	74.3	570.00	72.3	67.8	64.8	4.0	23.0	3.78	65.3	552.00	63.3	55.8	52.8	8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7	10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8	16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7	20.0	25.0	8.47	54.8	542.05	52.8	41.8	38.8	25.0	24.3	9.51	53.3	541.20	52.8	41.8	38.8	31.25	23.6	10.67	51.9	540.44	52.8	41.8	38.8	62.5	21.5	15.38	47.7	538.55	49.9	37.9	34.9	100	20.1	19.80	44.3	537.60	45.4	31.9	28.9	200	18.0	28.98	39.8	536.54	42.3	27.8	24.8	250	17.3	32.85	38.3	536.27	37.8	21.8	18.8	250	17.3	32.85	38.3	536.27	36.3	19.8	16.8
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2. Insulation	Material	HDPE																																																																																																																							
	Diameter	1.04±0.04mm																																																																																																																							
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																																																																																																																								
4. Rip-cord	Yes	Drain wire	No																																																																																																																						
5. Sheath	Inner Jacket	Material	PVC RoHS compliant																																																																																																																						
		Color	Multiple																																																																																																																						
		Thickness	0.55±0.05 mm																																																																																																																						
	Exter Jacket	Thickness	0.60±0.05 mm																																																																																																																						
		External O.D.	7.6±0.3 mm																																																																																																																						
		Surface	Clean,Frap,Satiation																																																																																																																						
		Material	PE RoHS compliant																																																																																																																						
		Color	Black																																																																																																																						
Surface Printing	Letter height	3.0±0.3mm																																																																																																																							
	Color	White																																																																																																																							
	Print error & Space	≤±0.5%, 1m																																																																																																																							
Packing	Plastic shaft plate / Pull box																																																																																																																								
Carton Size	36.8*16*25.5CM/40.5*32.5*41CM																																																																																																																								
Packing length	305±1.5m																																																																																																																								
PVC Sheath	Before Aging	Tensile Strength (Mpa)	≥13.5																																																																																																																						
		Elongation (%)	≥150																																																																																																																						
Physical Properties	Aging Period (°C×hrs)	100°C×24h×7d																																																																																																																							
	After Aging	Tensile Strength (Mpa)	≥12.5																																																																																																																						
		Elongation (%)	≥125																																																																																																																						
PE Sheath	Before Aging	Tensile Strength (Mpa)	≤10.0																																																																																																																						
		Elongation (%)	≤350																																																																																																																						
Physical Properties	Aging Period (°C×hrs)	100°C×24h×10d																																																																																																																							
	After Aging	Elongation (%)	≤300																																																																																																																						
	Cold bend (-20±2°C×4h)	No visible cracks																																																																																																																							
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		11.5																																																																																																																						
	DC Conductor Resistance Unbalance (%)max		5.0																																																																																																																						