

# TECHNICAL DATA SHEET

## Category 5e UTP PVC 100m Reel



Sheath Printing	VELOCITY PREMIUM C5E UTP 24AWG SOLID PVC 4PR TIA/EIA-568-B.2-1 NVP 67% ****M																																																																																																							
Category	100m Cat5e UTP PVC																																																																																																							
Test Standard	ISO/IEC11801、TIA/EIA-568-C.2 YD/T1019-2001																																																																																																							
Conductor	Material	oxygen free copper																																																																																																						
	NOM:O.D.(mm)	0.475	up down	+0.005 -0.005																																																																																																				
Insulation	Material	HDPE																																																																																																						
	Diameter	0.86±0.03mm																																																																																																						
Sheath	Thickness	0.50±0.05 mm			<b>Technical Performance (100m):</b> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT(20□) ≤dB</th> <th>NEXT ≥dB</th> <th>PHASE DELAY ≤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> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>PSNEXT ≥dB</th> <th>ELFEXT ≥dB</th> <th>PSELFEXT ≥dB</th> </tr> </thead> <tbody> <tr><td>1</td><td>62.3</td><td>63.8</td><td>60.8</td></tr> <tr><td>4</td><td>53.3</td><td>51.8</td><td>48.8</td></tr> <tr><td>8</td><td>48.8</td><td>45.7</td><td>42.7</td></tr> <tr><td>10</td><td>47.3</td><td>43.8</td><td>40.8</td></tr> <tr><td>16</td><td>44.4</td><td>39.7</td><td>36.7</td></tr> <tr><td>20</td><td>42.8</td><td>37.8</td><td>34.8</td></tr> <tr><td>25</td><td>41.3</td><td>35.8</td><td>32.8</td></tr> <tr><td>31.25</td><td>39.9</td><td>33.9</td><td>30.9</td></tr> <tr><td>62.5</td><td>35.4</td><td>27.9</td><td>24.9</td></tr> <tr><td>100</td><td>32.3</td><td>23.8</td><td>20.8</td></tr> </tbody> </table>	Frequency (MHz)	RL ≥dB	ATT(20□) ≤dB	NEXT ≥dB	PHASE DELAY ≤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	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
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Surface Printing	Letter height	3.0±0.3mm																																																																																																						
	Color	Black																																																																																																						
	Print error & Space	≤±0.5%, 1m																																																																																																						
	Core Color	1 White- Blue /Blue	2 White-Orange /Orange																																																																																																					
		3 White- Green /Green	4 White- Brown /Brown																																																																																																					
Packing	100m Reel																																																																																																							
Carton Dimension	35cm*35cm*20cm																																																																																																							
Packing length	(305±1.5)m																																																																																																							
Rip-cord	Yes	Drain wire	No																																																																																																					
Sheath Physical Properties	Before Aging Tensile Strength (MPA) ≥13.5		Elongation(%) ≥150																																																																																																					
	Aging Period(□×hrs) 100℃×24h×7d																																																																																																							
	After Aging Tensile Strength(MPA) ≥12.5		Elongation(%) ≥125																																																																																																					
	Cold bend(-20±2□×4h) 8×Cable O.D., No visible cracks																																																																																																							
	Electrical Characteristics (20□)	1.0-100.0MH Impedance(Ω) 100±15																																																																																																						
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