

U/UTP cable - category 5e- 4 Pair Unshielded –PVC+PE Sheath

Content of the Data Sheet																																																																
Sheath Printing	TBD																																																															
Customer No.		Customer Reference																																																														
Category	U/UTP CAT5e-4P-PVC+PE																																																															
Reference Standard	ISO/IEC11801、TIA- 568-C.2																																																															
Conductor	Material	SOLID-Bare Copper																																																														
	Nom. O.D. (mm)	0.495	Up	+0.005																																																												
			Down	-0.005																																																												
Insulation	Material	HDPE																																																														
	Diameter	0.87±0.05mm																																																														
Color	A.Blue, White-Blue	B.Orange,White-Orange			Technical Performance (100m): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL (dB)</th> <th>ATT(20℃) (dB)</th> <th>NEXT (dB)</th> <th>PHASE DELA (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>					Frequency (MHz)	RL (dB)	ATT(20℃) (dB)	NEXT (dB)	PHASE DELA (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)	RL (dB)	ATT(20℃) (dB)	NEXT (dB)						PHASE DELA (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																																																												
	C.Green,White-Green	D.Brown, White-Brown																																																														
Inner Jacket	Material	PVC	Color	Multiple																																																												
	Thickness	0.50mm (nom.)																																																														
Outer Jacket	Thickness	0.55±0.05 mm																																																														
	External O.D.	6.2±0.5 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%, 1m																																																														
Packing	Carton, pallet			Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB)	PSSELFEXT (dB)																																																									
Carton dimension	According to the requires			1	62.3	63.8	60.8																																																									
Packing length	305±1.5m			4	53.3	51.8	48.8																																																									
Out Jacket Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0		8	48.8	45.7	42.7																																																								
		Elongation (%)	≥350		10	47.3	43.8	40.8																																																								
	Aging Period (℃×hrs)	100℃×24h×10d			16	44.4	39.7	36.7																																																								
	After Aging	Elongation (%)	≥300		20	42.8	37.8	34.8																																																								
	Cold bend (-20±2℃×4h)	No visible cracks			25	41.3	35.8	32.8																																																								
Electrical Characteristics (20℃)	Characteristic impedance (Ω)		100±15		31.25	39.9	33.9	30.9																																																								
	Delay Skew 20℃(ns/100m)		≤45		62.5	35.4	27.9	24.9																																																								
	DC Resistance 20℃(Ω/100m) max		9.5		100	32.3	23.8	20.8																																																								
	DC Conductor Resistance Unbalance (%)max		5.0																																																													
Version	A/01	Date	2017-08-25	Revised By	Caihangle	Audited By	Nidonghua	Approved By	Nidonghua																																																							