

TECHNICAL DATA SHEET

F/UTP 4Pairs cable-category 6- PVC Sheath

Content of the Data Sheet

Sheath Printing	TBD																																																																																																																									
Customer No.		Customer Reference																																																																																																																								
Category	F/UTP CAT6-4P-PVC																																																																																																																									
Reference Standard	ISO/IEC11801 、TIA-568-C.2																																																																																																																									
Conductor	Material	SOLID-Bare Copper																																																																																																																								
	Nom.O.D.(mm)	0.520	up	+0.005																																																																																																																						
			down	-0.005																																																																																																																						
Insulation	Material	HDPE																																																																																																																								
	Diameter	1.05±0.05 mm																																																																																																																								
Screening Material	Mylar+ AL/Mylar																																																																																																																									
Sheath	Thickness	0.60±0.05mm			Technical Performance (100m): <table border="1" 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 DELAY ≤ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>—</td><td>74.3</td><td>570.00</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.78</td><td>65.3</td><td>552.00</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.32</td><td>60.8</td><td>546.73</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.95</td><td>59.3</td><td>545.38</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.55</td><td>56.2</td><td>543.00</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.47</td><td>54.8</td><td>542.05</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.51</td><td>53.3</td><td>541.20</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.67</td><td>51.9</td><td>540.44</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.38</td><td>47.7</td><td>538.55</td></tr> <tr><td>100</td><td>20.1</td><td>19.80</td><td>44.3</td><td>537.60</td></tr> <tr><td>200</td><td>18.0</td><td>28.98</td><td>39.8</td><td>536.54</td></tr> <tr><td>250</td><td>17.3</td><td>32.85</td><td>38.3</td><td>536.27</td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>72.3</td><td>67.8</td><td>64.8</td></tr> <tr><td>4</td><td>63.3</td><td>55.8</td><td>52.8</td></tr> <tr><td>8</td><td>58.8</td><td>49.7</td><td>46.7</td></tr> <tr><td>10</td><td>57.3</td><td>47.8</td><td>44.8</td></tr> <tr><td>16</td><td>54.2</td><td>43.7</td><td>40.7</td></tr> <tr><td>20</td><td>52.8</td><td>41.8</td><td>38.8</td></tr> <tr><td>25</td><td>51.3</td><td>39.8</td><td>36.8</td></tr> <tr><td>31.25</td><td>49.9</td><td>37.9</td><td>34.9</td></tr> <tr><td>62.5</td><td>45.4</td><td>31.9</td><td>28.9</td></tr> <tr><td>100</td><td>42.3</td><td>27.8</td><td>24.8</td></tr> <tr><td>200</td><td>37.8</td><td>21.8</td><td>18.8</td></tr> <tr><td>250</td><td>36.3</td><td>19.8</td><td>16.8</td></tr> </tbody> </table>	Frequency (MHz)	RL ≥dB	ATT (20℃) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	1	20.0	—	74.3	570.00	4.0	23.0	3.78	65.3	552.00	8.0	24.5	5.32	60.8	546.73	10.0	25.0	5.95	59.3	545.38	16.0	25.0	7.55	56.2	543.00	20.0	25.0	8.47	54.8	542.05	25.0	24.3	9.51	53.3	541.20	31.25	23.6	10.67	51.9	540.44	62.5	21.5	15.38	47.7	538.55	100	20.1	19.80	44.3	537.60	200	18.0	28.98	39.8	536.54	250	17.3	32.85	38.3	536.27	Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	1	72.3	67.8	64.8	4	63.3	55.8	52.8	8	58.8	49.7	46.7	10	57.3	47.8	44.8	16	54.2	43.7	40.7	20	52.8	41.8	38.8	25	51.3	39.8	36.8	31.25	49.9	37.9	34.9	62.5	45.4	31.9	28.9	100	42.3	27.8	24.8	200	37.8	21.8	18.8	250	36.3	19.8	16.8
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	External O.D.	6.9±0.4mm																																																																																																																								
	Surface	Clean, Frap, Satiation																																																																																																																								
	Material	PVC(complies RoHS)																																																																																																																								
	Color	TBD																																																																																																																								
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	Wooden Tray & Carton																																																																																																																									
Wooden Tray dimension	According to the requires																																																																																																																									
Packing length	305±1.5m																																																																																																																									
Rip-cord	Yes	Drain wire	Yes																																																																																																																							
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℃)	1.0-250.0MHz	Impedance (Ω)	100±15																																																																																																																							
	1.0-250.0MHz	Delay Skew (ns/100m)	≤45																																																																																																																							
		Unbalanced-to-ground capacitance (pf/100m) max	330																																																																																																																							
		DC Resistance (Ω/100m) max	9.5																																																																																																																							
		DC Conductor Resistance Unbalance (%) max	5.0																																																																																																																							
Version	A/01	Date	2017-08-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua																																																																																																																	