

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

LVN-CAT6PE-FUTP-305M

Content of the Data Sheet																																																																						
Sheath Printing	TBD																																																																					
Customer No.		Customer Reference																																																																				
Category	F/UTP CAT6-4P-PE																																																																					
Reference Standard	ISO/IEC11801 、ANSI/TIA-568.2-D																																																																					
Conductor	Material	SOLID-Bare Copper																																																																				
	Nom.O.D.(mm)	0.550	up	+0.005																																																																		
			down	-0.005																																																																		
Insulation	Material	HDPE																																																																				
	Diameter	1.10±0.08 mm																																																																				
Screening Material	Mylar+ AL/Mylar																																																																					
Sheath	Thickness	0.55±0.05mm																																																																				
	External O.D.	7.4±0.4mm																																																																				
	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																																																																				
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)	≥10.0																																																																			
		Elongation (%)	≥350																																																																			
	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	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	9.38																																																																			
		DC Conductor Resistance Unbalance (%) max	5.0																																																																			
Technical Performance (100m) :																																																																						
<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT (20°C) ≤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>						Frequency (MHz)	RL ≥dB	ATT (20°C) ≤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)	RL ≥dB	ATT (20°C) ≤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																																																																		
<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>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)	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													
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																																																																			
Acceptance criterion:According to FLUKE Permanent Link≤90m, pass																																																																						