

## U/UTP 4Pairs cable-category 6-FR LSZH Sheath

Content of the Data Sheet																																																																										
Sheath Printing	TBD																																																																									
Customer No.		Customer Reference	LVN122114																																																																							
Category	U/UTP CAT6-4P-LSZH (B2ca)																																																																									
Reference Standard	ISO/IEC11801、TIA-568-C.2																																																																									
Conductor	Material	SOLID-Bare Copper																																																																								
	Nom.O.D.(mm)	0.550	up	+0.005																																																																						
			down	-0.005																																																																						
Insulation	Material	HDPE																																																																								
	Diameter	0.98±0.05mm																																																																								
Filling	Plastic Separator : FRPE																																																																									
Sheath	Thickness	0.75±0.2 mm																																																																								
	External O.D.	6.4±0.4 mm																																																																								
	Surface	Clean, Frap, Satiation																																																																								
	Material	FR-LSZH (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	Drum																																																																									
Carton dimension	According to the requires																																																																									
Packing length	305±1.5m																																																																									
Rip-cord	Yes	Drain wire	No																																																																							
	Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥9.0						<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>2.03</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	2.03	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
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		Elongation (%)	≥100																																																																							
	Aging Period (°C × hrs)	100°C × 24h × 7d																																																																								
	After Aging	Tensile Strength (Mpa)	≥8.0																																																																							
		Elongation (%)	≥70																																																																							
	Cold bend (-20±2°C × 4h) 15times cable O.D. 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 (Ω/100m) max		9.38																																																																							
	DC Conductor Resistance Unbalance (%) max		5.0																																																																							
<b>Reaction to fire Classification: B2ca,s1a,d1,a1</b>																																																																										
Version	A/02	Date	2018-05-03	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua																																																																	

