

## U/FTP 4Pairs cable-category 6A-LSZH Sheath

P/N:G2503-075

Content of the Data Sheet																																																																																																																																																																																				
Sheath Printing	TBD																																																																																																																																																																																			
Customer No.		Customer Reference																																																																																																																																																																																		
Category	SD U/FTP- CAT6A-4P-LSZH IEC60332-1																																																																																																																																																																																			
Reference Standard	ISO/IEC11801 、ANSI/TIA-568-C.2																																																																																																																																																																																			
Conductor	Material	SOLID-Bare Copper																																																																																																																																																																																		
	Nom.O.D.(mm)	0.550	up	+0.005	down					-0.005																																																																																																																																																																										
Insulation	Material	Skin-foam-skin PE																																																																																																																																																																																		
	Diameter	1.28±0.05 mm																																																																																																																																																																																		
Screening Material	Al/Mylar	Drain wire	Yes																																																																																																																																																																																	
Sheath	Thickness	0.5±0.05 mm																																																																																																																																																																																		
	External O.D.	6.8±0.5 mm																																																																																																																																																																																		
	Surface	Clean																																																																																																																																																																																		
	Material	LSZH (complies RoHS), IEC60332-1																																																																																																																																																																																		
	Color	TBD																																																																																																																																																																																		
Surface Printing	Letter height	3.0±0.3mm																																																																																																																																																																																		
	Color	Black																																																																																																																																																																																		
	Print error & Space	≤±0.5%, 1m																																																																																																																																																																																		
Core Color	1 White/Blue	2 White/Orange																																																																																																																																																																																		
	3 White/Green	4 White/Brown																																																																																																																																																																																		
Packing	Drum																																																																																																																																																																																			
Packing length	305±1.5m																																																																																																																																																																																			
Rip-cord	Yes																																																																																																																																																																																			
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0																																																																																																																																																																																		
	Elongation(%)	≥125																																																																																																																																																																																		
	Aging Period (°C×hrs)	100°C×24h×7d																																																																																																																																																																																		
	After Aging Tensile Strength(Mpa)	≥8.0																																																																																																																																																																																		
	Elongation(%)	≥100																																																																																																																																																																																		
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100±15																																																																																																																																																																																	
		250.0-500.0MHz	100±22																																																																																																																																																																																	
	1.0-500.0MHz Delay Skew (ns/100m)	≤45																																																																																																																																																																																		
		unbalanced-to-ground capacitance(pf/km)max	1600																																																																																																																																																																																	
	DC Resistance (Ω/km) max	93.8																																																																																																																																																																																		
		Resistance Unbalance within a pair (%) max	2.0																																																																																																																																																																																	
	<table border="1"> <thead> <tr> <th colspan="10">Technical Performance (100m):</th> </tr> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>PHASE DELAY ≤ns</th> <th colspan="5"></th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>—</td><td>74.3</td><td>570</td><td colspan="5"></td></tr> <tr><td>4.0</td><td>23.0</td><td>3.8</td><td>65.3</td><td>552</td><td colspan="5"></td></tr> <tr><td>8.0</td><td>24.5</td><td>5.3</td><td>60.8</td><td>547</td><td colspan="5"></td></tr> <tr><td>10.0</td><td>25.0</td><td>5.9</td><td>59.3</td><td>545</td><td colspan="5"></td></tr> <tr><td>16.0</td><td>25.0</td><td>7.5</td><td>56.2</td><td>543</td><td colspan="5"></td></tr> <tr><td>20.0</td><td>25.0</td><td>8.4</td><td>54.8</td><td>542</td><td colspan="5"></td></tr> <tr><td>25.0</td><td>24.3</td><td>9.4</td><td>53.3</td><td>541</td><td colspan="5"></td></tr> <tr><td>31.25</td><td>23.6</td><td>10.5</td><td>51.9</td><td>540</td><td colspan="5"></td></tr> <tr><td>62.5</td><td>21.5</td><td>15.0</td><td>47.4</td><td>539</td><td colspan="5"></td></tr> <tr><td>100</td><td>20.1</td><td>19.1</td><td>44.3</td><td>538</td><td colspan="5"></td></tr> <tr><td>200</td><td>18.0</td><td>27.6</td><td>39.8</td><td>537</td><td colspan="5"></td></tr> <tr><td>250</td><td>17.3</td><td>31.1</td><td>38.3</td><td>536</td><td colspan="5"></td></tr> <tr><td>300</td><td>16.8</td><td>34.3</td><td>37.1</td><td>536</td><td colspan="5"></td></tr> <tr><td>400</td><td>15.9</td><td>40.1</td><td>35.3</td><td>536</td><td colspan="5"></td></tr> <tr><td>500</td><td>15.2</td><td>45.3</td><td>33.8</td><td>536</td><td colspan="5"></td></tr> </tbody> </table>										Technical Performance (100m):										Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns						1	20.0	—	74.3	570						4.0	23.0	3.8	65.3	552						8.0	24.5	5.3	60.8	547						10.0	25.0	5.9	59.3	545						16.0	25.0	7.5	56.2	543						20.0	25.0	8.4	54.8	542						25.0	24.3	9.4	53.3	541						31.25	23.6	10.5	51.9	540						62.5	21.5	15.0	47.4	539						100	20.1	19.1	44.3	538						200	18.0	27.6	39.8	537						250	17.3	31.1	38.3	536						300	16.8	34.3	37.1	536						400	15.9	40.1	35.3	536						500	15.2	45.3	33.8	536					
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<b>Acceptance criterion: FLUKE Permanent link test 90m, pass</b>																																																																																																																																																																																				
Version	A/01	Date	2019-06-17	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua																																																																																																																																																																											

