

## F/UTP 4 pairs cable - category 5e – LSZH Sheath

Content of the Data Sheet

Customer No.		Customer Reference																																																																																																										
Category	F/UTP CAT5E-4P-LSZH(Dca,s1,d2,a1)																																																																																																											
Reference Standard	ISO/IEC11801、TIA-568-C.2																																																																																																											
Conductor	Material	Solid-Bare Copper																																																																																																										
	Nom.O.D.(mm)	0.500	up						+0.005																																																																																																			
			down						-0.005																																																																																																			
Insulation	Material	HDPE																																																																																																										
	Diameter	1.00±0.05 mm																																																																																																										
Screening Material	Mylar+ AL/Mylar																																																																																																											
Sheath	Thickness	0.55±0.05mm							<b>Technical Performance(100m) :</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>Phase ≤ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>—</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> <table 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>62.3</td><td>63.8</td><td>60.8</td></tr> <tr><td>4</td><td>53.3</td><td>51.8</td><td>48.8</td></tr> <tr><td>8</td><td>48.8</td><td>45.7</td><td>42.7</td></tr> <tr><td>10</td><td>47.3</td><td>43.8</td><td>40.8</td></tr> <tr><td>16</td><td>44.4</td><td>39.7</td><td>36.7</td></tr> <tr><td>20</td><td>42.8</td><td>37.8</td><td>34.8</td></tr> <tr><td>25</td><td>41.3</td><td>35.8</td><td>32.8</td></tr> <tr><td>31.25</td><td>39.9</td><td>33.9</td><td>30.9</td></tr> <tr><td>62.5</td><td>35.4</td><td>27.9</td><td>24.9</td></tr> <tr><td>100</td><td>32.3</td><td>23.8</td><td>20.8</td></tr> </tbody> </table>					Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	Phase ≤ns	1	20.0	—	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)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	1	62.3	63.8	60.8	4	53.3	51.8	48.8	8	48.8	45.7	42.7	10	47.3	43.8	40.8	16	44.4	39.7	36.7	20	42.8	37.8	34.8	25	41.3	35.8	32.8	31.25	39.9	33.9	30.9	62.5	35.4	27.9	24.9
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	External O.D.	6.2±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	Wooden Tray & Carton																																																																																																											
Carton dimension	According to the requires																																																																																																											
Packing length	(305±1.5)m																																																																																																											
Rip-cord	Yes	Drain wire	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																																																																																																										
	Cold bend(-20±2°C×4h)	8×Cable O.D., No visible cracks																																																																																																										
Electrical Characteristics (20°C)	1.0-100.0MHz Impedance(Ω)	100±15																																																																																																										
	1.0-100.0MHz 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																																																																																																										

**Reaction to fire Classification: Dca,s1,d2,a1**