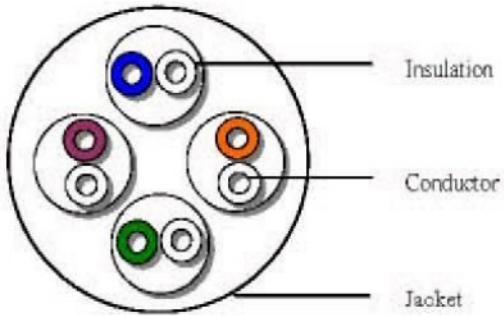


# SPECIFICATION

Issued Date	Style	L.A.N. CABLE	Document No.
Nov-09-2006			LUMN
Edition	Size	UTP CAT.6 24AWG X 4P (Solid)	Page
1.0			1/1

Marking	Electrical & Physical Properties :																																																																																											
I-SHENG UTP 4PR 24AWG ETL VERIFIED TO TIA/EIA-568-B.2 CAT.6 XXXXM	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency</th> <th>RL</th> <th>Att.</th> <th>NEXT</th> <th>PSNEXT</th> <th>ELPEXT</th> <th>PSHELPEXT</th> </tr> </thead> <tbody> <tr><td>1.0</td><td>20.0</td><td>2.0</td><td>74.3</td><td>72.3</td><td>67.8</td><td>64.8</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.8</td><td>65.3</td><td>63.3</td><td>55.8</td><td>52.8</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.3</td><td>60.8</td><td>58.8</td><td>49.7</td><td>46.7</td></tr> <tr><td>10.0</td><td>25.0</td><td>6.0</td><td>59.3</td><td>57.3</td><td>47.8</td><td>44.8</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.6</td><td>56.2</td><td>54.2</td><td>43.7</td><td>40.7</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.5</td><td>54.8</td><td>52.8</td><td>41.8</td><td>38.8</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.5</td><td>53.3</td><td>51.3</td><td>39.8</td><td>36.8</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.7</td><td>51.9</td><td>49.9</td><td>37.9</td><td>34.9</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.4</td><td>47.4</td><td>45.4</td><td>31.9</td><td>28.9</td></tr> <tr><td>100.0</td><td>20.1</td><td>19.8</td><td>44.3</td><td>42.3</td><td>27.8</td><td>24.8</td></tr> <tr><td>200</td><td>18.0</td><td>29.0</td><td>39.8</td><td>37.8</td><td>21.8</td><td>18.8</td></tr> <tr><td>250</td><td>17.3</td><td>32.8</td><td>38.3</td><td>36.3</td><td>19.8</td><td>16.8</td></tr> </tbody> </table>	Frequency	RL	Att.	NEXT	PSNEXT	ELPEXT	PSHELPEXT	1.0	20.0	2.0	74.3	72.3	67.8	64.8	4.0	23.0	3.8	65.3	63.3	55.8	52.8	8.0	24.5	5.3	60.8	58.8	49.7	46.7	10.0	25.0	6.0	59.3	57.3	47.8	44.8	16.0	25.0	7.6	56.2	54.2	43.7	40.7	20.0	25.0	8.5	54.8	52.8	41.8	38.8	25.0	24.3	9.5	53.3	51.3	39.8	36.8	31.25	23.6	10.7	51.9	49.9	37.9	34.9	62.5	21.5	15.4	47.4	45.4	31.9	28.9	100.0	20.1	19.8	44.3	42.3	27.8	24.8	200	18.0	29.0	39.8	37.8	21.8	18.8	250	17.3	32.8	38.3	36.3	19.8	16.8
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Description																																																																																												
Rating Temp : 75°C Flame test : CM Application : Horizontal Wiring in LAN Standard : UL444 、UL1581 、TIA/EIA 568B.2																																																																																												
Construction & Dimension :																																																																																												
Conductor : Material : Annealed Bare Copper Size : 24 AWG X 4P Construction : 1 / 0.54 ± 0.01 mm Insulation : Material : HDPE Minimum Average Thickness : 0.19 mm Minimum Thickness at any point : 0.18 mm Diameter : 0.96 ± 0.02 mm																																																																																												
Identification : 1. Blue×White/ Blue 2. Orange×White / Orange 3. Green×White/ Green 4. Brown×White/ Brown	Impedance ( 0.772-100 MHz ) : 85 ~ 115 Ω DC. Resistance Unbalance : 5% Pair-to-Ground Capacitance Unbalance : 330 pF/100m Max.																																																																																											
Core Assembly : Core Twist : 2 core twist Filler : NA Assembly Pair : 4 pair assembly	Conductor Resistance : 9.38 Ω/100m 20°C Max Mutual Capacitance : 5.6 nF/m Max. Spark Test : 2.5 KV																																																																																											
Cross Section																																																																																												
Taping : Mylar Foil : NA Shielded : Al-Mylar Foil : NA Braid : Tinned copper : NA Drain : Material : NA Construction : NA Jacket : Material : PVC Minimum Average Thickness : 0.45 mm Minimum Thickness at any point : 0.4 mm Diameter : 5.5 ± 0.2 mm																																																																																												
Approval	Drawing																																																																																											