

REF: U/FTP 4 pairs cable - Category 6A – PVC Sheath

Data Sheet

Sheath Printing	TYCAB NEW ZEALAND – CAT6A LAN CABLE – DPXA81051				METER MARKING																																																																																																																																										
Category	U/FTP-CAT6A-4P-PVC																																																																																																																																														
Test Standard	TIA/EIA 568-B.10																																																																																																																																														
Conductor	Material	SOLID-Bare Copper																																																																																																																																													
	Nom. O.D. (mm)	0.560	Up	+0.005																																																																																																																																											
			Down	-0.005																																																																																																																																											
Insulation	Material	Skin-Foam-Skin PE																																																																																																																																													
	Diameter	1.34 ± 0.05mm																																																																																																																																													
Screening Material	Aluminium Foil	Drain wire	No		Technical Performance (100m): <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>DELAY ≤ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>2.1</td><td>74.3</td><td>570.0</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.8</td><td>65.3</td><td>552.0</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.3</td><td>60.8</td><td>546.7</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.9</td><td>59.3</td><td>545.4</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.5</td><td>56.2</td><td>543.0</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.4</td><td>54.8</td><td>542.1</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.4</td><td>53.3</td><td>541.2</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.5</td><td>51.9</td><td>540.4</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.0</td><td>47.4</td><td>538.6</td></tr> <tr><td>100</td><td>20.1</td><td>19.1</td><td>44.3</td><td>537.6</td></tr> <tr><td>200</td><td>18.0</td><td>27.6</td><td>39.8</td><td>536.5</td></tr> <tr><td>250</td><td>17.3</td><td>31.1</td><td>38.3</td><td>536.3</td></tr> <tr><td>300</td><td>16.8</td><td>34.3</td><td>37.1</td><td>536.1</td></tr> <tr><td>500</td><td>15.2</td><td>45.3</td><td>33.8</td><td>535.6</td></tr> </tbody> </table> <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>68.0</td><td>65.0</td></tr> <tr><td>4</td><td>63.3</td><td>56.0</td><td>53.0</td></tr> <tr><td>8</td><td>58.8</td><td>49.9</td><td>46.9</td></tr> <tr><td>10</td><td>57.3</td><td>48.0</td><td>45.0</td></tr> <tr><td>16</td><td>54.2</td><td>43.9</td><td>40.9</td></tr> <tr><td>20</td><td>52.8</td><td>42.0</td><td>39.0</td></tr> <tr><td>25</td><td>51.3</td><td>40.0</td><td>37.0</td></tr> <tr><td>31.25</td><td>49.9</td><td>38.1</td><td>35.1</td></tr> <tr><td>62.5</td><td>45.4</td><td>32.1</td><td>29.1</td></tr> <tr><td>100</td><td>42.3</td><td>28.0</td><td>25.0</td></tr> <tr><td>200</td><td>37.8</td><td>22.0</td><td>19.0</td></tr> <tr><td>250</td><td>36.3</td><td>20.0</td><td>17.0</td></tr> <tr><td>300</td><td>35.1</td><td>18.5</td><td>15.5</td></tr> <tr><td>500</td><td>31.8</td><td>14.0</td><td>11.0</td></tr> </tbody> </table>				Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	1	20.0	2.1	74.3	570.0	4.0	23.0	3.8	65.3	552.0	8.0	24.5	5.3	60.8	546.7	10.0	25.0	5.9	59.3	545.4	16.0	25.0	7.5	56.2	543.0	20.0	25.0	8.4	54.8	542.1	25.0	24.3	9.4	53.3	541.2	31.25	23.6	10.5	51.9	540.4	62.5	21.5	15.0	47.4	538.6	100	20.1	19.1	44.3	537.6	200	18.0	27.6	39.8	536.5	250	17.3	31.1	38.3	536.3	300	16.8	34.3	37.1	536.1	500	15.2	45.3	33.8	535.6	Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	1	72.3	68.0	65.0	4	63.3	56.0	53.0	8	58.8	49.9	46.9	10	57.3	48.0	45.0	16	54.2	43.9	40.9	20	52.8	42.0	39.0	25	51.3	40.0	37.0	31.25	49.9	38.1	35.1	62.5	45.4	32.1	29.1	100	42.3	28.0	25.0	200	37.8	22.0	19.0	250	36.3	20.0	17.0	300	35.1	18.5	15.5	500	31.8	14.0	11.0
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5. Sheath	Thickness	0.55 ± 0.05 mm																																																																																																																																													
	External O.D.	7.5 ± 0.5 mm																																																																																																																																													
	Surface	Clean																																																																																																																																													
	Material	PVC, RoHS compliant																																																																																																																																													
	Color	Grey																																																																																																																																													
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	Plywood Spool																																																																																																																																														
Packing length	305 ± 1.0m																																																																																																																																														
Sheath Physical Properties	Before Aging																																																																																																																																														
	Tensile Strength (Mpa)	≥ 13.5																																																																																																																																													
	Elongation (%)	≥ 150																																																																																																																																													
	Aging Period (°C × hrs)	100°C × 24h × 7d																																																																																																																																													
	After Aging																																																																																																																																														
	Tensile Strength (Mpa)	≥ 12.5																																																																																																																																													
Electrical Characteristics (20°C)	Delay Shew 20°C (ns/100m)	≤ 45																																																																																																																																													
	Velocity of Propagation (%)	68																																																																																																																																													
DC Resistance (20°C)	DC Resistance 20°C (Ω/100m) max	7.2																																																																																																																																													
	DC Conductor Resistance Unbalance(%)max	2.0																																																																																																																																													