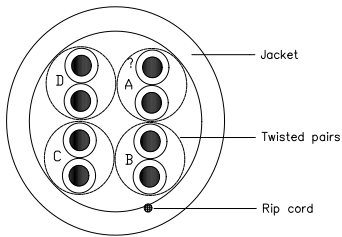


4Pairs Cat5e UTP Cable Specification

4X2X0.48		DATE: Oct 10, 2023																																																	
Cross Section		Performance																																																	
		Electrical Characteristics: <table> <tr> <th>Frequency (MHz)</th><th>Return loss (Min dB)</th><th>Attenuation Max (dB/100m)</th><th>NEXT (Min dB)</th></tr> <tr><td>0.772</td><td>19.4</td><td>1.8</td><td>67.0</td></tr> <tr><td>1</td><td>20.0</td><td>2.0</td><td>65.3</td></tr> <tr><td>4</td><td>23.0</td><td>4.1</td><td>56.3</td></tr> <tr><td>8</td><td>24.5</td><td>5.8</td><td>51.8</td></tr> <tr><td>10</td><td>25.0</td><td>6.5</td><td>50.3</td></tr> <tr><td>16</td><td>25.0</td><td>8.2</td><td>47.3</td></tr> <tr><td>20</td><td>25.0</td><td>9.3</td><td>45.8</td></tr> <tr><td>25</td><td>24.3</td><td>10.4</td><td>44.3</td></tr> <tr><td>31.25</td><td>23.6</td><td>11.7</td><td>42.9</td></tr> <tr><td>62.5</td><td>21.5</td><td>17.0</td><td>38.4</td></tr> <tr><td>100</td><td>20.1</td><td>22.0</td><td>35.3</td></tr> </table>		Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)	0.772	19.4	1.8	67.0	1	20.0	2.0	65.3	4	23.0	4.1	56.3	8	24.5	5.8	51.8	10	25.0	6.5	50.3	16	25.0	8.2	47.3	20	25.0	9.3	45.8	25	24.3	10.4	44.3	31.25	23.6	11.7	42.9	62.5	21.5	17.0	38.4	100	20.1	22.0	35.3
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Marking		Frequency PSNEXT ELFEXT PSELFEXT Delay																																																	
Per request		(MHz)	Min (dB) Min (dB/100m) Min (dB/100m) Max (ns/100m)																																																
Description Rated Temperature (°C) 75 Product Standard Certification Application Horizontal Wiring in LAN Reference Standard UL Subject 444, EIA/TIA568 & ISO/IEC 11801		0.772	64.0 66.0 63.0 575.0																																																
Construction Conductor Solid Bare Copper AWG 24 Conductor Dia. (mm) 0.48±0.008 Insulation HDPE Average Thickness(mm) 0.185 Min. Point Thickness(mm) 0.178 Insulation Dia.(±0.01mm) 0.92± 0.05MM Twisted Pair Dia.(±0.02mm) 1.82 Assembly Dia.(±0.2mm) 3.9		1	62.3 63.8 60.8 570.0																																																
Jacket PVC or LSOH Average Thickness(mm) 0.53 Min. Point Thickness(mm) 0.48 Outer Dia.(±0.2mm) 5.0±0.2MM		4	53.3 51.7 48.7 552.0																																																
Rip Cord Per request		8	48.8 45.7 42.7 546.7																																																
Color Insulation colors are: Blue, White/Blue Orange, White/Orange Green, White/Green Brown, White/Brown Jacket colors: Per request		10	47.3 43.8 40.8 545.4																																																
Marking Per request		16	44.3 39.7 36.7 543.0																																																
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		25	41.3 35.8 32.8 541.2																																																
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		1.0-100.0MHz Impedance (ohms) 100 ± 15																																																	
		1.0-100.0MHz Delay Skew (ns/100m) ≤45																																																	
		Pair-to-Ground Capacitance Unbalance (pF/100m) ≤330																																																	
		Max. Conductor DC Resistance 20°C (ohms/km) 93.8																																																	
		Resistance Unbalance (%) ≤5																																																	
		Mechanical Characteristics:																																																	
		Test Object	Jacket																																																
		Test Material	PVC																																																
		Before Tensile Strength (Mpa)	≥13.8																																																
		Aging Elongation (%)	≥100																																																
		Aging Condition (°C×hrs)	100×168																																																
		After Tensile Strength (Mpa)	≥85% of unaged																																																
		Aging Elongation (%)	≥50% of unaged																																																
		Cold Bend(-20±2°C×4hrs)	No crack																																																