



## 4Pairs Cat5e FTP Cable Specification

Product No.:SS-015502

AX2X0.50		DATE: Oct 10, 2014																																																	
Cross Section		Performance																																																	
		<b>Electrical Characteristics:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency (MHz)</th> <th>Return loss (Min dB)</th> <th>Attenuation (Max dB/100m)</th> <th>NEXT (Min dB)</th> </tr> </thead> <tbody> <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> </tbody> </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																																																	
Description		(MHz) Min (dB) lin (dB/100m) in (dB/100m) Max (ns/100m)																																																	
Rated Temperature (°C)	75	0.772	64.0	66.0	63.0	575.0																																													
Product Standard Certification		1	62.3	63.8	60.8	570.0																																													
<b>Application</b>		4	53.3	51.7	48.7	552.0																																													
Horizontal Wiring in LAN		8	48.8	45.7	42.7	546.7																																													
<b>Reference Standard</b>		10	47.3	43.8	40.8	545.4																																													
ANSI/TIA/EIA-568-B.2		16	44.3	39.7	36.7	543.0																																													
Construction		20	42.8	37.7	34.7	542.0																																													
<b>Conductor</b>	<b>Solid Bare Copper</b>	25	41.3	35.8	32.8	541.2																																													
AWG	24	31.25	39.9	33.9	30.9	540.4																																													
Conductor Dia. (mm)	<b>0.5</b>	62.5	35.4	27.8	24.8	538.6																																													
<b>Insulation</b>	<b>PE</b>	100	32.3	23.8	20.8	537.6																																													
Average Thickness(mm)	0.228	1.0-100.0MHz Impedance (ohms) <span style="float: right;">100 ± 15</span>  1.0-100.0MHz Delay Skew (ns/100m) <span style="float: right;">≤45</span> Pair-to-Ground Capacitance Unbalance (pF/100m) <span style="float: right;">≤330</span> Max. Conductor DC Resistance 20°C (ohms/km) <span style="float: right;">93.8</span> Resistance Unbalance (%) <span style="float: right;">≤5</span>																																																	
Min. Point Thickness(mm)	0.205																																																		
Insulation Dia.(±0.01mm)	<b>0.97</b>																																																		
<b>Twisted Pair Dia.(±0.02mm)</b>	1.94																																																		
PE-Tape(mm)	Yes																																																		
Drain wire (Solid Tinned Copper) Dia.(±0.003mm)	0.40																																																		
Al Foil Shield(mm)	Yes																																																		
PE-Tape(mm)	Yes																																																		
<b>Assembly Dia.(±0.2mm)</b>	4.95																																																		
<b>Jacket</b>	<b>LSZH</b>																																																		
Average Thickness(mm)	0.60																																																		
Min. Point Thickness(mm)	0.54																																																		
Outer Dia.(±0.2mm)	<b>6.15</b>																																																		
Rip Cord	Per request																																																		
Color		<b>Mechanical Characteristics:</b>																																																	
<b>Insulation colors are:</b> Blue, White/Blue Orange, White/Orange Green, White/Green Brown, White/Brown <b>Jacket colors:</b> Per request		Test Object <span style="float: right;">Jacket</span> Test Material <span style="float: right;">PVC</span> Before Tensile Strength (Mpa) <span style="float: right;">≥13.8</span> Aging Elongation (%) <span style="float: right;">≥100</span> Aging Condition (°Cxhrs) <span style="float: right;">100x168</span> After Tensile Strength (Mpa) <span style="float: right;">≥85% of unaged</span> Aging Elongation (%) <span style="float: right;">≥50% of unaged</span> Cold Bend(-20±2°Cx4hrs) <span style="float: right;">No crack</span>																																																	
Marking		Per request																																																	

