



Structured Cable Products

Quality Installations Deserve Quality Products

Cat 5e Direct Burial Shielded

4x2x0.515		DATE:2009.05.27																																																																			
Cross Section		Performance																																																																			
		Electrical Characteristics: 1.0-350.0MHz Impedance (ohms) 100 ± 15 1.0-350.0MHz Delay Skew (ns/100m) ≤45 Pair-to-Ground Capacitance Unbalance (pF/100m) ≤330 Max. Conductor DC Resistance 20°C (ohms/km) 95 Resistance Unbalance (%) ≤5																																																																			
Description		<table border="1"> <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>1</td><td>20.0</td><td>2.0</td><td>68.3</td></tr> <tr><td>4</td><td>23.0</td><td>4.1</td><td>59.3</td></tr> <tr><td>8</td><td>24.5</td><td>5.8</td><td>54.8</td></tr> <tr><td>10</td><td>25.0</td><td>6.5</td><td>53.3</td></tr> <tr><td>16</td><td>25.0</td><td>8.2</td><td>50.3</td></tr> <tr><td>20</td><td>25.0</td><td>9.3</td><td>48.8</td></tr> <tr><td>25</td><td>24.3</td><td>10.4</td><td>47.3</td></tr> <tr><td>31.25</td><td>23.6</td><td>11.7</td><td>45.9</td></tr> <tr><td>62.5</td><td>21.5</td><td>17.0</td><td>41.4</td></tr> <tr><td>100</td><td>20.1</td><td>22.0</td><td>38.3</td></tr> <tr><td>155</td><td>18.8</td><td>28.1</td><td>35.5</td></tr> <tr><td>200</td><td>18.0</td><td>32.4</td><td>33.8</td></tr> <tr><td>240</td><td>17.4</td><td>36.0</td><td>32.6</td></tr> <tr><td>300</td><td>16.8</td><td>41.0</td><td>31.2</td></tr> <tr><td>350</td><td>16.3</td><td>44.9</td><td>30.1</td></tr> </tbody> </table>				Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)	1	20.0	2.0	68.3	4	23.0	4.1	59.3	8	24.5	5.8	54.8	10	25.0	6.5	53.3	16	25.0	8.2	50.3	20	25.0	9.3	48.8	25	24.3	10.4	47.3	31.25	23.6	11.7	45.9	62.5	21.5	17.0	41.4	100	20.1	22.0	38.3	155	18.8	28.1	35.5	200	18.0	32.4	33.8	240	17.4	36.0	32.6	300	16.8	41.0	31.2	350	16.3	44.9	30.1
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Rated Temperature (°C) 70 Rated Voltage(V) 30 Product Standard Certification Flammability Test IEC-332-1		<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>PSNEXT Min (dB)</th> <th>ELFEXT Min (dB/100m)</th> <th>PSELFEXT in (dB/100m)</th> </tr> </thead> <tbody> <tr><td>1</td><td>66.3</td><td>63.8</td><td>60.8</td></tr> <tr><td>4</td><td>57.3</td><td>51.7</td><td>48.7</td></tr> <tr><td>8</td><td>52.8</td><td>45.7</td><td>42.7</td></tr> <tr><td>10</td><td>51.3</td><td>43.8</td><td>40.8</td></tr> <tr><td>16</td><td>48.3</td><td>39.7</td><td>36.7</td></tr> <tr><td>20</td><td>46.8</td><td>37.8</td><td>34.8</td></tr> <tr><td>25</td><td>45.3</td><td>35.8</td><td>32.8</td></tr> <tr><td>31.25</td><td>43.9</td><td>33.9</td><td>30.9</td></tr> <tr><td>62.5</td><td>39.4</td><td>27.8</td><td>24.8</td></tr> <tr><td>100</td><td>36.3</td><td>24.0</td><td>21.0</td></tr> <tr><td>155</td><td>33.5</td><td>20.0</td><td>17.0</td></tr> <tr><td>200</td><td>31.8</td><td>17.7</td><td>14.7</td></tr> <tr><td>240</td><td>30.6</td><td>16.2</td><td>13.2</td></tr> <tr><td>300</td><td>29.2</td><td>14.2</td><td>11.2</td></tr> <tr><td>350</td><td>28.1</td><td>12.9</td><td>9.9</td></tr> </tbody> </table>				Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT in (dB/100m)	1	66.3	63.8	60.8	4	57.3	51.7	48.7	8	52.8	45.7	42.7	10	51.3	43.8	40.8	16	48.3	39.7	36.7	20	46.8	37.8	34.8	25	45.3	35.8	32.8	31.25	43.9	33.9	30.9	62.5	39.4	27.8	24.8	100	36.3	24.0	21.0	155	33.5	20.0	17.0	200	31.8	17.7	14.7	240	30.6	16.2	13.2	300	29.2	14.2	11.2	350	28.1	12.9	9.9
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Construction		Mechanical Characteristics:																																																																			
Conductor Solid Bare Copper AWG 24 Conductor Dia. (±0.005mm) 0.515 Insulation PE Average Thickness(mm) 0.228 Min. Point Thickness(mm) 0.220 Insulation Dia.(±0.01mm) 0.97 Twisted Pair Dia.(±0.01) 1.94 Filler Gel Pe-tape YES Drain wire (TC) 0.40 Al-foil YES Pe-tape YES Assembly Dia.(mm) 4.80 Jacket LLDPE Average Thickness(mm) 0.70 Min. Point Thickness(mm) 0.63 Outer Dia.(±0.30mm) 6.40 Rip Cord Per request		Test Object Jacket Test Material LLDPE Before Tensile Strength (Mpa) ≥13.8 Aging Elongation (%) ≥100 Aging Condition (°Cxhrs) 100x168 After Tensile Strength (Mpa) ≥85% of unaged Aging Elongation (%) ≥50% of unaged Cold Bend(-20±2°Cx4hrs) No crack																																																																			
Color																																																																					
The color of the wire pair in cables A:Blue-White with Blue B:Orange-White with Orange C:Green-White with Green D:Brown-White with Brown The jacket color: BLACK																																																																					
Marking																																																																					
4PR SHIELDED CAT 5E ENHANCED (UL) OR C(UL) E198134 24AWG 350MHZ DIRECT BURIAL (FLOODED) OUTDOOR VERIFIED TO TIA/EIA 568B.2 STRUCTURED CABLE PRODUCTS ZONE/JACK A B C D E 0 1 2 3 4 5 6 7 8 9 ROHS ce xxxxF1																																																																					