



Content of the Data Sheet

Sheath Printing	TBD																																																																																																						
Customer No.		Customer Reference																																																																																																					
Category	SF/UTP CAT5E-4P-PVC																																																																																																						
Reference Standard	ISO/IEC11801, TIA-568-C.2																																																																																																						
Conductor	Material	Solid-Bare Copper																																																																																																					
	Nom. O.D. (mm)	0.500	Up	+0.005																																																																																																			
			Down	-0.005																																																																																																			
Insulation	Material	HDPE																																																																																																					
	Diameter	1.00±0.05 mm																																																																																																					
Color	1. Blue, White-Blue	2. Orange, White-Orange																																																																																																					
	3. Green, White-Green	4. Brown, White-Brown																																																																																																					
Inner Shield Material	Mylar + AL/Mylar	Drain wire	Yes																																																																																																				
Braid	Aluminum-magnesium alloy 0.12mm	Coverage	≥40%																																																																																																				
Sheath	Thickness	0.55±0.05 mm																																																																																																					
	External O.D.	6.6±0.5 mm																																																																																																					
	Surface	Clean, Frap, Satiation																																																																																																					
	Material	PVC (complies RoHS)																																																																																																					
	Color	TBD																																																																																																					
Surface Printing	Letter height	3.0±0.3 mm																																																																																																					
	Color	Black																																																																																																					
	Print error & Space	≤±0.5%, 1 m																																																																																																					
Packing	Wooden Tray & Carton																																																																																																						
Carton dimension	According to the requires																																																																																																						
Packing length	305±1.5 m																																																																																																						
Rip-cord	Yes																																																																																																						
Out Jacket 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																																																																																																				
		Elongation (%)	≥125																																																																																																				
	Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks																																																																																																						
Electrical Characteristics (20°C)	1.0-100.0MHz, Characteristic impedance (Ω)	100±15																																																																																																					
	1.0-100.0MHz, Delay Skew 20°C (ns/100m)	≤45																																																																																																					
	Unbalanced-to-ground capacitance (pf/100m) max	330																																																																																																					
	DC Resistance 20°C (Ω/100m) max	9.5																																																																																																					
	DC Conductor Resistance Unbalance (%) max	5.0																																																																																																					
<b>Technical Performance (100m) :</b> <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>—</td><td>65.3</td><td>570.00</td></tr> <tr><td>4.0</td><td>23.0</td><td>4.1</td><td>56.3</td><td>552.00</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.8</td><td>51.8</td><td>546.73</td></tr> <tr><td>10.0</td><td>25.0</td><td>6.5</td><td>50.3</td><td>545.38</td></tr> <tr><td>16.0</td><td>25.0</td><td>8.2</td><td>47.2</td><td>543.00</td></tr> <tr><td>20.0</td><td>25.0</td><td>9.3</td><td>45.8</td><td>542.05</td></tr> <tr><td>25.0</td><td>24.3</td><td>10.4</td><td>44.3</td><td>541.20</td></tr> <tr><td>31.25</td><td>23.6</td><td>11.7</td><td>42.9</td><td>540.44</td></tr> <tr><td>62.5</td><td>21.5</td><td>17.0</td><td>38.4</td><td>538.55</td></tr> <tr><td>100</td><td>20.1</td><td>22.0</td><td>35.3</td><td>537.60</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>62.3</td><td>63.8</td><td>60.8</td></tr> <tr><td>4</td><td>53.3</td><td>51.8</td><td>48.8</td></tr> <tr><td>8</td><td>48.8</td><td>45.7</td><td>42.7</td></tr> <tr><td>10</td><td>47.3</td><td>43.8</td><td>40.8</td></tr> <tr><td>16</td><td>44.4</td><td>39.7</td><td>36.7</td></tr> <tr><td>20</td><td>42.8</td><td>37.8</td><td>34.8</td></tr> <tr><td>25</td><td>41.3</td><td>35.8</td><td>32.8</td></tr> <tr><td>31.25</td><td>39.9</td><td>33.9</td><td>30.9</td></tr> <tr><td>62.5</td><td>35.4</td><td>27.9</td><td>24.9</td></tr> <tr><td>100</td><td>32.3</td><td>23.8</td><td>20.8</td></tr> </tbody> </table>					Frequency (MHz)	RL (dB)	ATT (dB)	NEXT (dB)	DELAY (ns)	1	20.0	—	65.3	570.00	4.0	23.0	4.1	56.3	552.00	8.0	24.5	5.8	51.8	546.73	10.0	25.0	6.5	50.3	545.38	16.0	25.0	8.2	47.2	543.00	20.0	25.0	9.3	45.8	542.05	25.0	24.3	10.4	44.3	541.20	31.25	23.6	11.7	42.9	540.44	62.5	21.5	17.0	38.4	538.55	100	20.1	22.0	35.3	537.60	Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	1	62.3	63.8	60.8	4	53.3	51.8	48.8	8	48.8	45.7	42.7	10	47.3	43.8	40.8	16	44.4	39.7	36.7	20	42.8	37.8	34.8	25	41.3	35.8	32.8	31.25	39.9	33.9	30.9	62.5	35.4	27.9	24.9	100	32.3	23.8	20.8
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