

U/UTP 4Pairs cable-category5E-CMP PVC Sheath

P/N: G2301-018

Content of the Data Sheet

Sheath Printing	TBD																																																																																																											
Customer No.		Customer Reference																																																																																																										
Category	U/UTP CAT5E-4P-PVC-CMP																																																																																																											
Reference Standard	ISO/IEC11801、ANSI/TIA-568-C.2																																																																																																											
Conductor	Material	Solid-Bare copper			<b>Technical Performance (100m) :</b>  <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL <math>\geq</math> dB</th> <th>ATT <math>\leq</math> dB</th> <th>NEXT <math>\geq</math> dB</th> <th>Phase DELAY <math>\leq</math> ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>2.0</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 <math>\geq</math> dB</th> <th>ELFEXT <math>\geq</math> dB</th> <th>PSELFEXT <math>\geq</math> 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 $\geq$ dB	ATT $\leq$ dB	NEXT $\geq$ dB	Phase DELAY $\leq$ ns	1	20.0	2.0	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 $\geq$ dB	ELFEXT $\geq$ dB	PSELFEXT $\geq$ 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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Nom.O.D.(mm)	0.490	up	+0.005																																																																																																									
		down	-0.005																																																																																																									
Insulation	Material	FEP																																																																																																										
	Diameter	0.84 $\pm$ 0.05mm																																																																																																										
Sheath	Thickness	0.43 $\pm$ 0.05 mm																																																																																																										
	External O.D.	4.7 $\pm$ 0.4mm																																																																																																										
	Surface	Clean, Frap, Satiation																																																																																																										
	Material	PVC (complies RoHS), CMP																																																																																																										
	Color	TBD																																																																																																										
Surface Printing	Letter height	3.0 $\pm$ 0.3mm																																																																																																										
	Color	Black																																																																																																										
	Print error & Space	$\leq$ $\pm$ 0.5%, 1m																																																																																																										
Core Color	1 White- Blue /Blue	2 White-Orange /Orange																																																																																																										
	3 White- Green /Green	4 White- Brown /Brown																																																																																																										
Packing	Wooden Tray & Carton																																																																																																											
Carton dimension	According to the requires																																																																																																											
Packing length	(305 $\pm$ 1.5)m																																																																																																											
Rip-cord	Yes	Drain wire	No																																																																																																									
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	$\geq$ 13.5																																																																																																										
	Elongation(%)	$\geq$ 150																																																																																																										
	Aging Period( $^{\circ}$ C $\times$ h)	100 $^{\circ}$ C $\times$ 24h $\times$ 7d																																																																																																										
	After Aging Tensile Strength(Mpa)	$\geq$ 12.5																																																																																																										
	Elongation(%)	$\geq$ 125																																																																																																										
	Cold bend(-20 $\pm$ 2 $^{\circ}$ C $\times$ 4h) 8xCable O.D., No visible cracks																																																																																																											
Electrical Characteristics (20 $^{\circ}$ C)	1.0-100.0MHz Impedance( $\Omega$ )	100 $\pm$ 15																																																																																																										
	1.0-100.0MHz Delay Skew (ns/100m)	$\leq$ 45																																																																																																										
	DC Resistance ( $\Omega$ /100m) max	9.5																																																																																																										
	DC Conductor Resistance Unbalance(%) max	5.0																																																																																																										
<b>Acceptance criterion:FLUKE Permanent link test<math>\leq</math>90m, pass</b>																																																																																																												