

TECHNICAL DATA SHEET



REF: F/UTP 4 pairs cable - Category 6 - 250MHz – PE Sheath

Sheath Printing	It will be printed as customer's requirement with batch produce.																																																																									
Category	F/UTP CAT6-4P-PE																																																																									
Test Standard	ISO/IEC11801、TIA-568-C.2 YD/T 1019																																																																									
Conductor	Material	oxygen free copper																																																																								
	Nom.O.D.(mm)	0.57	up	+0.005																																																																						
Insulation	Material	HDPE																																																																								
	Diameter	1.09±0.03 mm																																																																								
Screening Material	Aluminum Foil				Technical Performance (100m): <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT(20°C) ≤dB</th> <th>NEXT ≥dB</th> <th>PHASE DELAY ≤ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>2.03</td><td>74.3</td><td>570.00</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.78</td><td>65.3</td><td>552.00</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.32</td><td>60.8</td><td>546.73</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.95</td><td>59.3</td><td>545.38</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.55</td><td>56.2</td><td>543.00</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.47</td><td>54.8</td><td>542.05</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.51</td><td>53.3</td><td>541.20</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.67</td><td>51.9</td><td>540.44</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.38</td><td>47.7</td><td>538.55</td></tr> <tr><td>100</td><td>20.1</td><td>19.80</td><td>44.3</td><td>537.60</td></tr> <tr><td>200</td><td>18.0</td><td>28.98</td><td>39.8</td><td>536.54</td></tr> <tr><td>250</td><td>17.3</td><td>32.85</td><td>38.3</td><td>536.27</td></tr> </tbody> </table>					Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	1	20.0	2.03	74.3	570.00	4.0	23.0	3.78	65.3	552.00	8.0	24.5	5.32	60.8	546.73	10.0	25.0	5.95	59.3	545.38	16.0	25.0	7.55	56.2	543.00	20.0	25.0	8.47	54.8	542.05	25.0	24.3	9.51	53.3	541.20	31.25	23.6	10.67	51.9	540.44	62.5	21.5	15.38	47.7	538.55	100	20.1	19.80	44.3	537.60	200	18.0	28.98	39.8	536.54	250	17.3	32.85	38.3	536.27
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Sheath	Thickness	0.60±0.05mm			Frequency																																																																					
	External O.D.	7.4±0.4 mm			RL																																																																					
	Surface	Clean,Frap,Satiation			ATT(20°C)																																																																					
	Material	PE			NEXT																																																																					
Surface Printing	Color	BLACK			PHASE DELAY																																																																					
	Letter height	3.0±0.3mm			Frequency																																																																					
	Print error & Space	≤±0.5%, 1m			PSNEXT																																																																					
Core Color	1 White- Blue /Blue		2 White-Orange /Orange		ELFEXT																																																																					
	3 White- Green /Green		4 White- Brown /Brown		PSELFEXT																																																																					
Packing	As per customer's requirement				Frequency																																																																					
Wooden Tray dimension	According to the requires				PSNEXT																																																																					
Packing length	305±1.5m				ELFEXT																																																																					
Rip-cord	Yes	Drain wire	Yes		PSELFEXT																																																																					
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10		Frequency																																																																					
		Elongation(%)	≥150		PSNEXT																																																																					
	Aging Period (°C × hrs)	100°C × 24h × 10d			ELFEXT																																																																					
	After Aging	Elongation(%)	≥300		PSELFEXT																																																																					
Electrical Characteristics (20°C)	1.0-100.0MHz	Impedance (Ω)	100±15		Frequency																																																																					
	1.0-100.0MHz	Delay Shew (ns/100m)	≤45		PSNEXT																																																																					
		unbalanced-to-ground capacitance (pf/100m) max	330		ELFEXT																																																																					
		DC Resistance (Ω/100m)	max	9.38	PSELFEXT																																																																					
		DC Conductor Resistance Unbalance (%)	max	5.0	Frequency																																																																					