



SCP PART#: CAT6A-U/FTP-DB

UPC: 817777015690

DESCRIPTION:

CAT6A U/FTP DIRECT BURIAL- 10GBASE-T, 600 MHz 23 AWG SOLID BC, 4PR, U/FTP, GEL FILLED, ANSI/TIA-568.2-D, ISO/IEC 11801 CLASS Ea, LLDPE JKT- BLACK- 1000 FT/305M SPOOL

Content of the Data Sheet																																																																																				
Sheath Printing	STRUCTURED CABLE PRODUCTS -- P/N CAT6A-U/FTP-DB -- CAT6A AUGMENTED 600 MHz 4 PR 23 AWG SOLID U/FTP GEL FILLED PE JKT OUTDOOR / DIRECT BURIAL VERIFIED TO ANSI/TIA 568.2-D ISO/IEC 11801 CLASS E(A) -- CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXX FEET MM/YY																																																																																			
Customer No.		Customer Reference																																																																																		
Category	U/FTP-JELLY CAT6A-4P-PE																																																																																			
Reference Standard	ISO/IEC11801 TIA-568.2-D																																																																																			
Conductor	Material	SOLID-Bare Copper																																																																																		
	Nom.O.D.(mm)	0.560	up	+0.005																																																																																
			down	-0.005																																																																																
Insulation	Material	Skin-foam-skin PE																																																																																		
	Diameter	1.330±0.05 mm																																																																																		
Screening Material	Aluminum Foil	Drain wire	Yes																																																																																	
Sheath	Thickness	0.55±0.05 mm																																																																																		
	External O.D.	7.4±0.4 mm																																																																																		
	Surface	Clean																																																																																		
	Material	LDPE(complies RoHS)																																																																																		
	Color	Black																																																																																		
Surface Printing	Letter height	3.0±0.3mm																																																																																		
	Color	White																																																																																		
	Print error & Space	≤±0.5%, 1m																																																																																		
	Core Color (With striped color)	1 White/Blue	2 White/Orange																																																																																	
	3 White/Green	4 White/Brown																																																																																		
Packing weight	N.W. 15.50KGS, G.W.17.0kgs																																																																																			
Wooden REEL dimension	38cm x 38cm x 32cm																																																																																			
Packing length	305±1.5m , 27 reels each pallet																																																																																			
Rip-cord	Yes																																																																																			
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0																																																																																	
		Elongation (%)	≥350																																																																																	
	Aging Period (°C × hrs)	100°C × 24h × 10d																																																																																		
	After Aging	Elongation (%)	≥300																																																																																	
	Cold bend (-20 ± 2°C × 4h)	No visible cracks																																																																																		
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100 ± 15																																																																																	
		250.0-500.0MHz	100 ± 22																																																																																	
		1.0-500.0MHz	Delay Skew (ns/100m)	≤45																																																																																
	unbalanced-to-ground capacitance(pf/100m)max	330																																																																																		
		DC Resistance (Ω/100m) max	9.38																																																																																	
		DC Conductor Resistance Unbalance (%) max	5.0																																																																																	
Technical Performance (100m): <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>PHASE DELAY ≤ns</th> </tr> </thead> <tbody> <tr><td>1</td><td>20.0</td><td>—</td><td>74.3</td><td>570</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.8</td><td>65.3</td><td>552</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.3</td><td>60.8</td><td>547</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.9</td><td>59.3</td><td>545</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.5</td><td>56.2</td><td>543</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.4</td><td>54.8</td><td>542</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.4</td><td>53.3</td><td>541</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.5</td><td>51.9</td><td>540</td></tr> <tr><td>62.5</td><td>21.5</td><td>15.0</td><td>47.4</td><td>539</td></tr> <tr><td>100</td><td>20.1</td><td>19.1</td><td>44.3</td><td>538</td></tr> <tr><td>200</td><td>18.0</td><td>27.6</td><td>39.8</td><td>537</td></tr> <tr><td>250</td><td>17.3</td><td>31.1</td><td>38.3</td><td>536</td></tr> <tr><td>300</td><td>16.8</td><td>34.3</td><td>37.1</td><td>536</td></tr> <tr><td>400</td><td>15.9</td><td>40.1</td><td>35.3</td><td>536</td></tr> <tr><td>500</td><td>15.2</td><td>45.3</td><td>33.8</td><td>536</td></tr> </tbody> </table>					Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	1	20.0	—	74.3	570	4.0	23.0	3.8	65.3	552	8.0	24.5	5.3	60.8	547	10.0	25.0	5.9	59.3	545	16.0	25.0	7.5	56.2	543	20.0	25.0	8.4	54.8	542	25.0	24.3	9.4	53.3	541	31.25	23.6	10.5	51.9	540	62.5	21.5	15.0	47.4	539	100	20.1	19.1	44.3	538	200	18.0	27.6	39.8	537	250	17.3	31.1	38.3	536	300	16.8	34.3	37.1	536	400	15.9	40.1	35.3	536	500	15.2	45.3	33.8	536
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns																																																																																
1	20.0	—	74.3	570																																																																																
4.0	23.0	3.8	65.3	552																																																																																
8.0	24.5	5.3	60.8	547																																																																																
10.0	25.0	5.9	59.3	545																																																																																
16.0	25.0	7.5	56.2	543																																																																																
20.0	25.0	8.4	54.8	542																																																																																
25.0	24.3	9.4	53.3	541																																																																																
31.25	23.6	10.5	51.9	540																																																																																
62.5	21.5	15.0	47.4	539																																																																																
100	20.1	19.1	44.3	538																																																																																
200	18.0	27.6	39.8	537																																																																																
250	17.3	31.1	38.3	536																																																																																
300	16.8	34.3	37.1	536																																																																																
400	15.9	40.1	35.3	536																																																																																
500	15.2	45.3	33.8	536																																																																																
<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>72.3</td><td>67.8</td><td>64.8</td></tr> <tr><td>4</td><td>63.3</td><td>55.8</td><td>52.8</td></tr> <tr><td>8</td><td>58.8</td><td>49.7</td><td>46.7</td></tr> <tr><td>10</td><td>57.3</td><td>47.8</td><td>44.8</td></tr> <tr><td>16</td><td>54.2</td><td>43.7</td><td>40.7</td></tr> <tr><td>20</td><td>52.8</td><td>41.8</td><td>38.8</td></tr> <tr><td>25</td><td>51.3</td><td>39.8</td><td>36.8</td></tr> <tr><td>31.25</td><td>49.9</td><td>37.9</td><td>34.9</td></tr> <tr><td>62.5</td><td>45.4</td><td>31.9</td><td>28.9</td></tr> <tr><td>100</td><td>42.3</td><td>27.8</td><td>24.8</td></tr> <tr><td>200</td><td>37.8</td><td>21.8</td><td>18.8</td></tr> <tr><td>250</td><td>36.3</td><td>19.8</td><td>16.8</td></tr> <tr><td>300</td><td>35.1</td><td>18.3</td><td>15.3</td></tr> <tr><td>400</td><td>33.3</td><td>15.8</td><td>12.8</td></tr> <tr><td>500</td><td>31.8</td><td>13.8</td><td>10.8</td></tr> </tbody> </table>					Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	1	72.3	67.8	64.8	4	63.3	55.8	52.8	8	58.8	49.7	46.7	10	57.3	47.8	44.8	16	54.2	43.7	40.7	20	52.8	41.8	38.8	25	51.3	39.8	36.8	31.25	49.9	37.9	34.9	62.5	45.4	31.9	28.9	100	42.3	27.8	24.8	200	37.8	21.8	18.8	250	36.3	19.8	16.8	300	35.1	18.3	15.3	400	33.3	15.8	12.8	500	31.8	13.8	10.8																
Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB																																																																																	
1	72.3	67.8	64.8																																																																																	
4	63.3	55.8	52.8																																																																																	
8	58.8	49.7	46.7																																																																																	
10	57.3	47.8	44.8																																																																																	
16	54.2	43.7	40.7																																																																																	
20	52.8	41.8	38.8																																																																																	
25	51.3	39.8	36.8																																																																																	
31.25	49.9	37.9	34.9																																																																																	
62.5	45.4	31.9	28.9																																																																																	
100	42.3	27.8	24.8																																																																																	
200	37.8	21.8	18.8																																																																																	
250	36.3	19.8	16.8																																																																																	
300	35.1	18.3	15.3																																																																																	
400	33.3	15.8	12.8																																																																																	
500	31.8	13.8	10.8																																																																																	