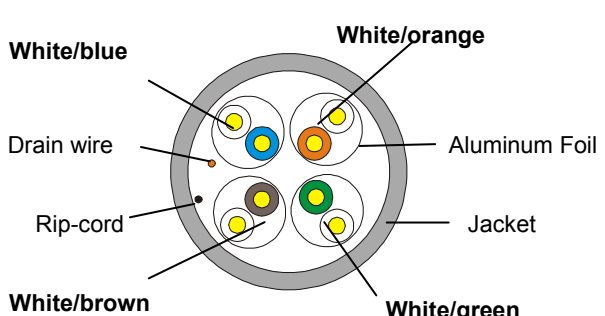


**SCP PART#: CAT6A-SHP**

<b>Description</b>	CAT6A U/FTP PLENUM - 10GBASE-T, 600 MHz 23AWG SOLID BC 4PR, U/FTP, ANSI/TIA 568.2-D, ETL CMP																																																																																																																																																				
	BLUE JKT - 1000 FT/ 305 M SPOOL																																																																																																																																																				
Content of the Data Sheet																																																																																																																																																					
Sheath Printing	STRUCTURED CABLE PRODUCTS --- P/N CAT6A-SHP --- CAT6A CMP AUGMENTED 600 MHz U/FTP ETL VERIFIED , ANSI/TIA 568.2-D ISO/IEC 11801 CLASS E(A) 4PR 23AWG 75C CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 **** FEET MM/YY																																																																																																																																																				
Category	U/FTP- CAT6A-4P-PVC-CMP																																																																																																																																																				
Test Standard	ISO/IEC11801,ANSI/TIA 568.2-D																																																																																																																																																				
Conductor	Material	SOLID-Bare Copper																																																																																																																																																			
	Nom.O.D.(mm)	0.560	up	+0.005	down	-0.005																																																																																																																																															
Insulation	Material	foam-FEP																																																																																																																																																			
	Diameter	1.340±0.08 mm																																																																																																																																																			
Screening Material	Aluminum Foil	Drain wire	Yes																																																																																																																																																		
Drain wire Material	Tinned Copper	Voltage Rating	300V																																																																																																																																																		
Sheath	Thickness	0.50±0.05 mm																																																																																																																																																			
	External O.D.	7.3±0.5 mm																																																																																																																																																			
	Surface	Clean																																																																																																																																																			
	Material	PVC(complies RoHS),CMP																																																																																																																																																			
	Color	Multiple																																																																																																																																																			
Surface Printing	Letter height	3.0±0.3mm																																																																																																																																																			
	Color	Black																																																																																																																																																			
	Print error & Space	±0.5%, 1m																																																																																																																																																			
Core Color (With striped color)	1 White/Blue	2 White/Orange																																																																																																																																																			
	3 White/Green	4 White/Brown																																																																																																																																																			
Packing	Wooden reel, 36 reels each pallet																																																																																																																																																				
Weight:	N.W.:21.00KGS / G.W: 22.50KGS																																																																																																																																																				
Packing length	305±1.0m																																																																																																																																																				
Rip-cord	Yes																																																																																																																																																				
Sheath 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)	Delay Skew (ns/100m)	≤45																																																																																																																																																			
	Velocity of Propagation (%)	76																																																																																																																																																			
	unbalanced-to-ground capacitance (pf/100m) max	330																																																																																																																																																			
	DC Resistance (Ω/100m) max	9.38																																																																																																																																																			
	DC Conductor Resistance Unbalance (%) max	5.0																																																																																																																																																			
																																																																																																																																																					
<p>FLUKE Channel Technical Performance (&lt;90m)</p> <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>19.0</td><td>3.0</td><td>65.0</td><td></td></tr> <tr><td>4.0</td><td>19.0</td><td>4.2</td><td>63.0</td><td></td></tr> <tr><td>8.0</td><td>19.0</td><td>5.8</td><td>58.2</td><td></td></tr> <tr><td>10.0</td><td>19.0</td><td>6.5</td><td>56.6</td><td></td></tr> <tr><td>16.0</td><td>18.0</td><td>8.2</td><td>53.2</td><td>498</td></tr> <tr><td>20.0</td><td>17.5</td><td>9.2</td><td>51.6</td><td></td></tr> <tr><td>25.0</td><td>17.0</td><td>10.2</td><td>50.0</td><td></td></tr> <tr><td>31.25</td><td>16.5</td><td>11.5</td><td>48.4</td><td></td></tr> <tr><td>62.5</td><td>14.0</td><td>16.4</td><td>43.4</td><td></td></tr> <tr><td>100</td><td>12.0</td><td>20.9</td><td>39.9</td><td></td></tr> <tr><td>200</td><td>9.0</td><td>30.1</td><td>34.8</td><td></td></tr> <tr><td>250</td><td>8.0</td><td>33.9</td><td>33.1</td><td></td></tr> <tr><td>400</td><td>6.0</td><td>43.7</td><td>28.7</td><td></td></tr> <tr><td>500</td><td>6.0</td><td>49.3</td><td>26.1</td><td></td></tr> <tr><td>*600</td><td>6.0</td><td>54.5</td><td>24.0</td><td></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>62.0</td><td>63.3</td><td>60.3</td></tr> <tr><td>4</td><td>60.5</td><td>51.2</td><td>48.2</td></tr> <tr><td>8</td><td>55.6</td><td>45.2</td><td>42.2</td></tr> <tr><td>10</td><td>54.0</td><td>43.3</td><td>40.3</td></tr> <tr><td>16</td><td>50.6</td><td>39.2</td><td>36.2</td></tr> <tr><td>20</td><td>49.0</td><td>37.2</td><td>34.2</td></tr> <tr><td>25</td><td>47.3</td><td>35.3</td><td>32.3</td></tr> <tr><td>31.25</td><td>45.7</td><td>33.4</td><td>30.4</td></tr> <tr><td>62.5</td><td>40.6</td><td>27.3</td><td>24.3</td></tr> <tr><td>100</td><td>37.1</td><td>23.3</td><td>20.3</td></tr> <tr><td>200</td><td>31.9</td><td>17.2</td><td>14.2</td></tr> <tr><td>250</td><td>30.2</td><td>15.3</td><td>12.3</td></tr> <tr><td>400</td><td>25.8</td><td>11.2</td><td>8.2</td></tr> <tr><td>500</td><td>23.2</td><td>9.3</td><td>6.3</td></tr> <tr><td>*600</td><td>21.1</td><td>8.2</td><td>5.2</td></tr> </tbody> </table> <p>Remarks: * are the reference values</p>						Frequency (MHz)	RL (dB)	ATT (dB)	NEXT (dB)	DELAY (ns)	1	19.0	3.0	65.0		4.0	19.0	4.2	63.0		8.0	19.0	5.8	58.2		10.0	19.0	6.5	56.6		16.0	18.0	8.2	53.2	498	20.0	17.5	9.2	51.6		25.0	17.0	10.2	50.0		31.25	16.5	11.5	48.4		62.5	14.0	16.4	43.4		100	12.0	20.9	39.9		200	9.0	30.1	34.8		250	8.0	33.9	33.1		400	6.0	43.7	28.7		500	6.0	49.3	26.1		*600	6.0	54.5	24.0		Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	1	62.0	63.3	60.3	4	60.5	51.2	48.2	8	55.6	45.2	42.2	10	54.0	43.3	40.3	16	50.6	39.2	36.2	20	49.0	37.2	34.2	25	47.3	35.3	32.3	31.25	45.7	33.4	30.4	62.5	40.6	27.3	24.3	100	37.1	23.3	20.3	200	31.9	17.2	14.2	250	30.2	15.3	12.3	400	25.8	11.2	8.2	500	23.2	9.3	6.3	*600	21.1	8.2	5.2
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