

SCP PART#: CAT6A-P-XX

U/UTP 4Pairs cable-category 6A-CMP Sheath(600MHz) Available in Blue or White Jkt

Date	Prepared by	Checked by	Approved by	Version	Revision Declaration																																																																																
2015-10-09	Caihangle	Nidonghua	Wangfuzhu	A0																																																																																	
Content of the Data Sheet																																																																																					
Description	CAT6 AUGMENTED PLENUM - 10GBASE-T, 600 MHz 23 AWG SOLID BC 4PR UTP, TIA/EIA-568-C.2, ISO/IEC 11801 Ed2 CLASS Ea, CMP- JACKET- 1000FT SPOOL																																																																																				
Approvals/Ratings	UL and c(UL) CMP FT6																																																																																				
Category	U-UTP-CAT6A-4P-PVC-CMP																																																																																				
Test Standard	ISO/IEC11801、ANSI/TIA-568-C.2 、EN50173																																																																																				
1. Conductor	Material	SOLID-Bare Copper																																																																																			
	Nom. O.D. (mm)	0.565	Up	+0.005																																																																																	
			Down	-0.005																																																																																	
	Material	FEP																																																																																			
Diameter	0.99±0.04mm																																																																																				
Color	1.Blue, White-Blue	2.Orange,White-Orange																																																																																			
	3.Green,White-Gree	4.Brown, White-Brown																																																																																			
3. Filling	Plastic Separator : FEP																																																																																				
4. Rip-cord	Yes	Drain wire	No																																																																																		
5. Sheath	Thickness	0.45±0.05 mm																																																																																			
	External O.D.	6.1±0.4 mm																																																																																			
	Surface	Clean,Frap,Satiation																																																																																			
	Material	PVC (complies RoHS),CMP																																																																																			
	Color	According to the requires																																																																																			
Surface Printing	Letter height	3.0±0.3mm																																																																																			
	Color	Black																																																																																			
	Print error & Space	≤±0.5%, 1m																																																																																			
Packing	Drum																																																																																				
Weight	N.W16.50KGS/ G.W 18.00KGS																																																																																				
Packing length	305±1.5m																																																																																				
Sheath	Before Aging	Tensile Strength (Mpa)	≥13.5																																																																																		
		Elongation (%)	≥150																																																																																		
Physical Properties	Aging Period (°C×hrs)		100°C×24h×7d																																																																																		
	After Aging	Tensile Strength (Mpa)	≥12.5																																																																																		
		Elongation (%)	≥125																																																																																		
	Cold bend (-20±2°C×4h)		No visible cracks																																																																																		
	Electrical Characteristics (20°C)	1.0-500.0MHz, Characteristic impedance (Ω)		100±15																																																																																	
		1.0-500.0MHz, Delay Shew 20°C(ns/100m)		≤45																																																																																	
		DC Resistance 20°C(Ω/100m) max		9.38																																																																																	
DC Conductor Resistance Unbalance (%)max		5.0																																																																																			
FLUKE Technical Performance (80m) <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>19.1</td><td>3.0</td><td>65.0</td><td></td></tr> <tr><td>4.0</td><td>21.0</td><td>3.5</td><td>64.1</td><td></td></tr> <tr><td>8.0</td><td>21.0</td><td>5.0</td><td>59.4</td><td></td></tr> <tr><td>10.0</td><td>21.0</td><td>5.5</td><td>57.8</td><td></td></tr> <tr><td>16.0</td><td>20.0</td><td>7.0</td><td>54.6</td><td>498</td></tr> <tr><td>20.0</td><td>19.5</td><td>7.9</td><td>53.1</td><td></td></tr> <tr><td>25.0</td><td>19.0</td><td>8.9</td><td>51.5</td><td></td></tr> <tr><td>31.25</td><td>18.5</td><td>10.0</td><td>50.0</td><td></td></tr> <tr><td>62.5</td><td>16.0</td><td>14.4</td><td>45.1</td><td></td></tr> <tr><td>100</td><td>14.0</td><td>18.6</td><td>41.8</td><td></td></tr> <tr><td>200</td><td>11.0</td><td>27.4</td><td>36.9</td><td></td></tr> <tr><td>250</td><td>10.0</td><td>31.1</td><td>35.3</td><td></td></tr> <tr><td>400</td><td>8.0</td><td>38.4</td><td>29.9</td><td></td></tr> <tr><td>500</td><td>8.0</td><td>43.8</td><td>26.7</td><td></td></tr> <tr><td>*600</td><td>8.0</td><td>48.7</td><td>24.0</td><td></td></tr> </tbody> </table>						Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	1	19.1	3.0	65.0		4.0	21.0	3.5	64.1		8.0	21.0	5.0	59.4		10.0	21.0	5.5	57.8		16.0	20.0	7.0	54.6	498	20.0	19.5	7.9	53.1		25.0	19.0	8.9	51.5		31.25	18.5	10.0	50.0		62.5	16.0	14.4	45.1		100	14.0	18.6	41.8		200	11.0	27.4	36.9		250	10.0	31.1	35.3		400	8.0	38.4	29.9		500	8.0	43.8	26.7		*600	8.0	48.7	24.0	
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Remarks: * are the reference values																																																																																					

Acceptance criterion: Per 4Pair pass FLUKE Permanent link test instrument.