

SCP PART#: CAT6A-P-BK

Rev04/20

CAT6A UTP PLENUM - 10GBASE-T, 600MHz 23AWG SOLID BC 4PR, UTP, ANSI/TIA 568.2-D, ISO/IEC 11801 CLASS Ea, UL CMP, JKT-BLACK- 1000FT SPOOL

Approvals/Ratings	UL and c(UL) CMP FT6																																																																																						
Category	U-UTP-CAT6A-4P-PVC-CMP																																																																																						
Test Standard	ISO/IEC11801、ANSI/TIA 568-2.D 、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			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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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																																																																																					
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Weight	N.W16.50KGS/ G.W 18.00KGS																																																																																						
Packing length	305±1.5m																																																																																						
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)	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																																																																																					

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