



CATEGORY 6A PLENUM CABLE, 4 PAIR, UTP, UL CMP

CAT6A UTP PLENUM - 10GBASE-T, 600MHz 23AWG SOLID BC 4PR, UTP, ANSI/TIA 568.2-D, ISO/IEC 11801 CLASS Ea, UL CMP FT6 JKT, PoE/PoH IEE 802.3bt TYPE 4

Part Number:	Jacket Color:
CAT6A-P-BK	Black
CAT6A-P-BL	Blue
CAT6A-P-WT	White

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	<table border="1"> <thead> <tr> <th colspan="5">FLUKE Technical Performance (80m)</th> </tr> <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>					FLUKE Technical Performance (80m)					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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		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																																																																																											
	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																																																																																												
	Remarks: * are the reference values																																																																																													

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