

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					
			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)					
4. Rip-cord	Yes	Drain wire	No	Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	
5. Sheath	Thickness	0.45±0.05 mm		1	19.1	3.0	65.0		
	External O.D.	6.1±0.4 mm		4.0	21.0	3.5	64.1		
	Surface	Clean,Frap,Satiation		8.0	21.0	5.0	59.4		
	Material	PVC (complies RoHS),CMP		10.0	21.0	5.5	57.8		
	Color	According to the requires		16.0	20.0	7.0	54.6	498	
Surface Printing	Letter height	3.0±0.3mm		20.0	19.5	7.9	53.1		
	Color	Black		25.0	19.0	8.9	51.5		
	Print error & Space	≤±0.5%, 1m		31.25	18.5	10.0	50.0		
				62.5	16.0	14.4	45.1		
Packing	Drum			100	14.0	18.6	41.8		
Weight	18.00kgs / 39.6lbs			200	11.0	27.4	36.9		
Packing length	305m / 1000ft			250	10.0	31.1	35.3		
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥13.5	400	8.0	38.4	29.9		
		Elongation (%)	≥150	500	8.0	43.8	26.7		
	Aging Period (°C×hrs)	100°C×24h×7d		*600	8.0	48.7	24.0		
		After Aging	Tensile Strength (Mpa)	≥12.5	Frequency PSNEXT (MHz)	≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	
	Elongation (%)		≥125	1	62.0	64.2	61.2		
	Cold bend (-20±2°C×4h)	No visible cracks		4	61.8	52.1	49.1		
				8	57.0	46.1	43.1		
	Electrical Characteristics (20°C)	1.0-500.0MHz, Characteristic impedance (Ω)		100±15	10	55.5	44.2	41.2	
		1.0-500.0MHz, Delay Shew 20°C(ns/100m)		≤45	16	52.2	40.1	37.1	
		DC Resistance 20°C(Ω/100m) max		9.38	20	50.7	38.2	35.2	
DC Conductor Resistance Unbalance (%)max		5.0	25	49.1	36.2	33.2			
				31.25	47.5	34.3	31.3		
				62.5	42.7	28.3	25.3		
				100	39.3	24.2	21.2		
				200	34.3	18.2	15.2		
				250	32.7	16.2	13.2		
				400	27.1	12.1	9.1		
				500	23.8	10.2	7.2		
				*600	21.0	8.6	5.6		

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

Remarks: * are the reference values