

Specification for Category 6A U/FTP Stranded Lan Cable  
 Spec. No. S1040625 Version: A Date: June 25, 2015

28AWG x 4P

ISO/IEC 11801: Patch Cord (Stranded Conductor)

1. Conductor: Material / Size Bare copper / 28AWG

2. Insulation : HDPE(CMI-75E)

Min. Avg. Thickness: 0.28 mm;

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3. Color Code: Pair 1: Blue & White/Blue;  
 Pair 2: Orange & White/Orange  
 Pair 3: Green & White/Green;  
 Pair 4: Brown & White/Brown

4. Shield: Aluminum-mylar tape and Drain wire (tinned copper conductor)

5. Jacket: LSZH (low-smoke & non-halogen) compound

Min. Avg. Thickness: 0.585 mm;

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Approximate O.D.: 4.8 mm +/- 0.3 mm

6. Electric Requirements: (Cable length: 100M)

Characteristic Impedance( $Z_0$ ): 85~115 $\Omega$  (1 ~ 500 MHz)

DC. Resistance Capacitance Unbalance: 5%

Pair-to-Ground Capacitance Unbalance: 330 pF/100M Max

Conductor Resistance: 22.3  $\Omega$  / 100M 20 $^{\circ}$ C Max

Mutual Capacitance: 5600 pF/100M Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 80 %

ROHS Compliant

SPECIFICATION	ERP NO.:	Product No.	Date
		P-W-MM-S6AX-28L-1K	

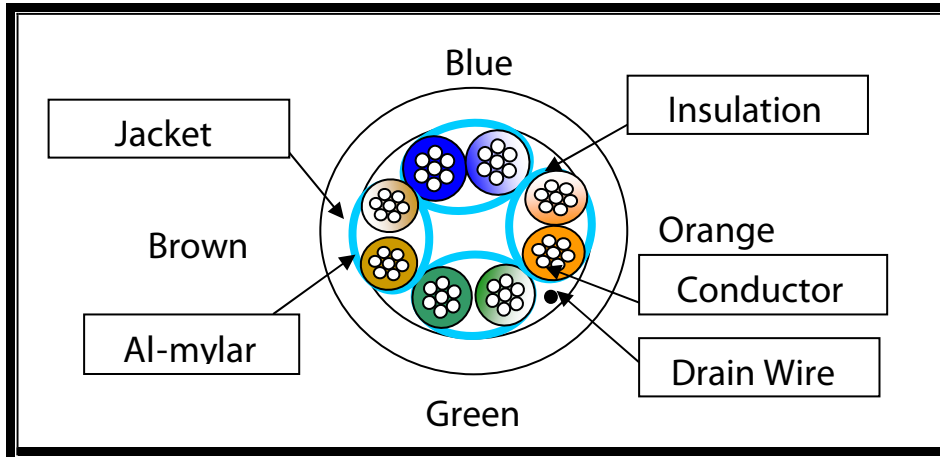
Drawing :

Check :

Approved :

J. Lai

**Category 6 A U/FTP Lan Cable**



Category 6A							
Frequency MHz	Insertion loss (Stranded)	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
*1	6.0	20.0	74.3	67.8	570	72.3	64.8
*8	11.1	24.5	60.8	49.7	547	58.8	46.7
*10	15.2	25.0	59.3	47.8	545	57.3	44.8
*16	20.8	25.0	56.2	43.7	543	54.2	40.7
*25	28.5	24.3	53.3	39.8	541	51.3	36.8
*31.25	38.8	23.3	51.9	37.9	540	49.9	34.9
*62.5	43.8	20.7	47.4	37.9	539	45.4	28.9
*100	55.4	19.0	44.3	27.8	538	42.3	24.8
*200	60.0	16.4	39.8	21.8	538	37.8	18.8
*250	65.1	15.6	38.3	19.8	536	36.3	16.8
*300	70.1	14.9	37.1	18.3	536	35.1	15.3
*400	75.6	13.8	35.3	15.8	536	33.3	12.8
*500	85.4	13.0	33.8	13.8	536	31.8	10.8

The asterisked (\*) \*Values show on tables above are for reference purpose only.

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