

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

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Specification for Category 6A U/FTP Solid Lan Cable Date: JAN. 16 2015

23AWG x 4P

ISO/IEC 11801: Horizontal Cable (Solid Conductor)

1. Conductor: **Material / Size** Bare copper / 23AWG

2. Insulation : HDPE

Min. Avg. Thickness: 0.45mm;

Min. Thickness: 0.38 mm

3. Color Code: Pair 1: Blue & White

Pair 2: Orange & White

Pair 3: Green & White

Pair 4: Brown & White

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

5. Jacket: **PVC**

Min. Avg. Thickness: 0.585 mm;

Min. Thickness: 0.458 mm

Approximate O.D.: 7.5 mm +/- 0.3mm

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

Characteristic Impedance(Z_0): 85 ~ 115 Ω (1 ~ 500 MHz)

DC. Resistance Capacitance Unbalance: 2%

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

Conductor Resistance: 7.32 Ω / 100M 20°C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 74 %

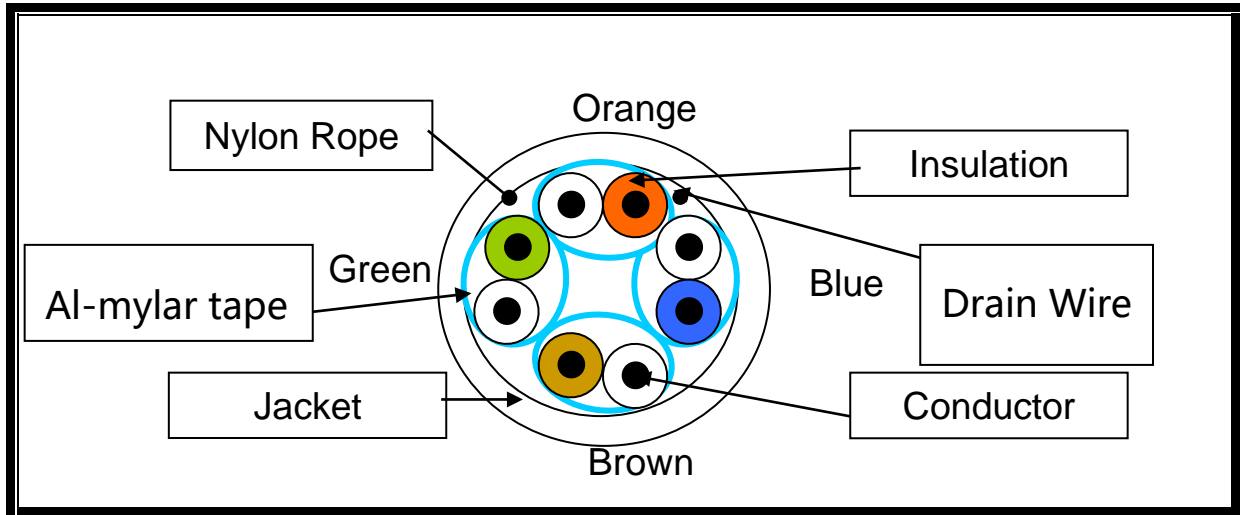
ROHS Compliant

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LSZH Category 6A U/FTP Lan Cable



Category 6A

Frequency MHz	Insertion loss (Solid)	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
*1	3.0	20.0	74.3	67.8	570	72.3	64.8
8	6.4	24.5	60.8	49.7	547	58.8	46.7
10	7.1	25.0	59.3	47.8	545	57.3	44.8
16	9.1	25.0	56.2	43.7	543	54.2	40.7
25	11.4	24.3	53.3	39.8	541	51.3	36.8
31.25	12.8	23.3	51.9	37.9	540	49.9	34.9
62.5	18.5	20.7	47.4	37.9	539	45.4	28.9
100	23.8	19.0	44.3	27.8	538	42.3	24.8
200	34.8	16.4	39.8	21.8	538	37.8	18.8

250	39.4	15.6	38.3	19.8	536	36.3	16.8
300	44.1	14.9	37.1	18.3	536	35.1	15.3
400	51.6	13.8	35.3	15.8	536	33.3	12.8
500	56.4	13.0	33.8	13.8	536	31.8	10.8

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

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