

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

1-2

Specification for Category 6A F/UTP Solid OUTDOOR PE Lan Cable

UL 444 : TYPE CMX , 23AWG x 4P

ISO/IEC 11801: Horizontal Cable (Solid Conductor)

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

2.Insulation : HDPE

Min. Avg. Thickness: 0.28mm

Min. Thickness: 0.25mm

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: Mylar tape , drain wire(tinned copper conductor) and aluminum-mylar tape

5.Jacket: PE Compound

Min. Avg. Thickness: 0.585 mm;

Min. Thickness: 0.458 mm

Approximate O.D.: 7.3 mm +/- 0.3mm

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

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

Other Requirements: (dB/100M)

DC. Resistance Capacitance Unbalance: 5%

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: Outer Jacket: 2.5KV

Insulation: 1.75KV

Dielectric Strength: 1.5KV AC/2secs

Nominal Velocity of Propagation (NVP): 76%

7.Temperature Range:

Installation Temperature **0 to 50°C**

Storage Temperature **-20 to 70°C**

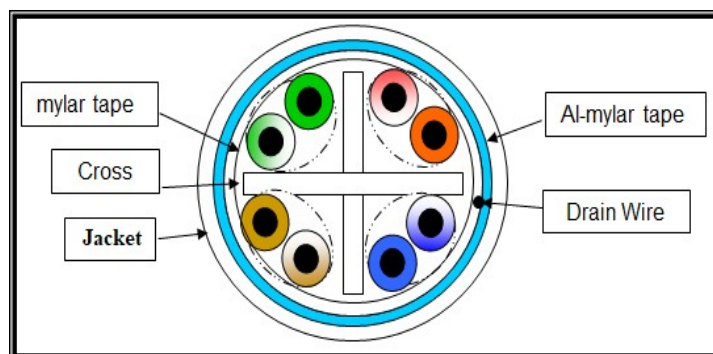
Operation Temperature **-10 to 60°C**

RoHS Compliant

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Category 6A							
Frequency MHz	Insertion loss (Solid)	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
*1	3.4	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.

RoHS Compliant