

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

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Specification for Augmented Category 6 Draft 6.0 (10GBASE-T) PVC UTP Solid Lan Cable

TYPE .23AWG x 4P

ANSI/TIA-568C.2: Horizontal Cable (Solid Conductor)

1.Conductor: Solid Bare Copper (1 x AWG23)

2.Insulation : HDPE

Min. Avg. Thickness: 0.208 mm;

Min. Thickness: 0.195 mm

3.Color Code:

Pair 1: Blue & White/Blue;

Pair 2: Orange & White/Orange

Pair 3: Green & White/Green;

Pair 4: Brown & White/Brown

4.Jacket: 75°C PVC Compound

Min. Avg. Thickness: 0.685mm;

Min. Thickness: 0.558 mm

Approximate O.D.: 7.8 mm +/- 0.3mm

5.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): 68 %

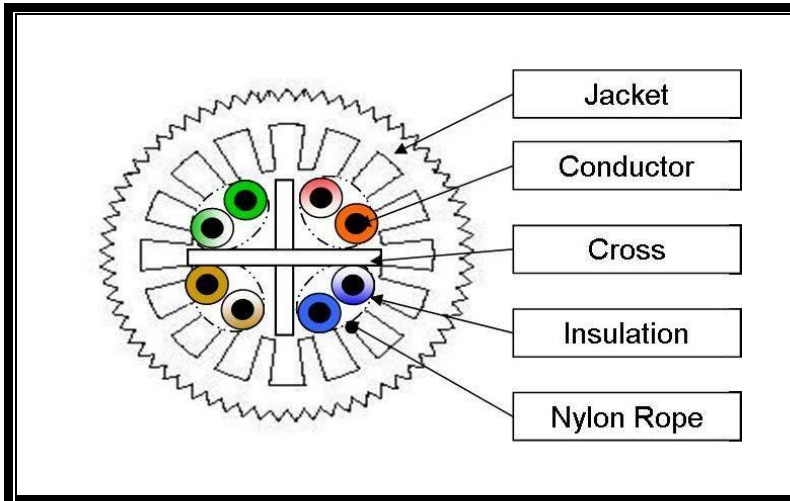
ROHS Compliant

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draft 6.0 category 6A							
Frequency MHz	Insertion loss (Solid)	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
1	2.1	20.0	74.3	67.8	570	72.3	64.8
4	3.8	23.0	65.3	55.8	552	63.3	52.8
8	5.6	24.5	60.8	49.7	547	58.8	46.7
10	5.9	25.0	59.3	47.8	545	57.3	44.8
16	7.5	25.0	56.2	43.7	543	54.2	40.7
20	8.4	25.0	54.8	41.8	542	52.8	38.8
25	9.4	24.3	53.3	39.8	541	51.3	36.8
31.25	10.5	23.6	51.9	37.9	540	49.9	34.9
62.5	15.0	21.5	47.4	37.9	539	45.4	28.9
100	19.1	20.1	44.3	27.8	538	42.3	24.8
200	27.6	18.0	39.8	21.8	538	37.8	18.8
250	31.1	17.3	38.3	19.8	536	36.3	16.8
300	34.3	16.8	37.1	18.3	536	35.1	15.3
400	40.1	15.9	35.3	15.8	536	33.3	12.8
500	45.3	15.2	33.8	13.8	536	31.8	10.8

ROHS Compliant