

# KUWES WIRE & CABLE

## DATA SHEET & TEST REPORT

1-2

**Specification for Cat.5e UTP 350Mhz Solid Lan Cable**  
**Item No. KS-UTP-C5E Version: A Date: March 26, 2012**

**UL 444 & CSA-C22.2 Type CM, 24AWG x 4P**

**ANSI/TIA-568.2-D and ISO/IEC 11801-1: Horizontal Cable (Solid Conductor)**

**1.Conductor:** Solid Bare copper (1 x AWG24)

**2.Insulation :** HDPE

Min. Avg. Thickness: 0.178 mm;

Min. Thickness: 0.153 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: 0.585 mm;

Min. Thickness: 0.458 mm

Approximate O.D.: 5.2 mm +/- 0.3mm

**5.Electric Requirements:** (Cable length: 100M)

Characteristic Impedance( $Z_0$ ): 85~115 $\Omega$  (1~350MHz)

Other Requirements: (dB/100M)

DC. Resistance Capacitance Unbalance: 5%

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

Conductor Resistance: 9.38 $\Omega$ / 100M 20°C Max

Mutual Capacitance: 5.6 nF/m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 69 %

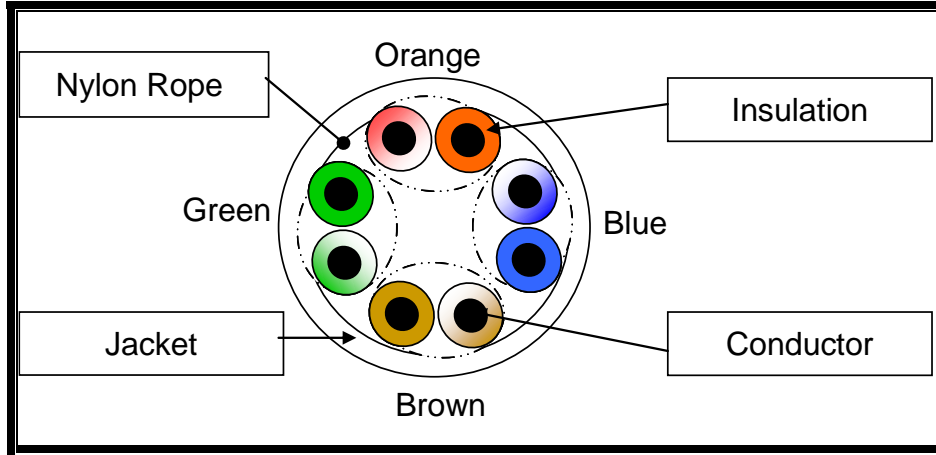
**ROHS Compliant**

# KUWES WIRE & CABLE

## DATA SHEET & TEST REPORT

2-2

### Cat.5e UTP Solid Lan Cable - 350Mhz



Frequency MHz	Att. Solid	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	2.0	65.3	62.3	538.5	45	20.0	63.8	60.8
10	5.9	50.3	47.3	545.0	45	25.0	43.8	40.8
16	8.0	47.3	44.4	539.9	45	25.0	39.7	36.7
20	9.2	45.8	42.8	540.2	45	25.0	37.7	34.7
25	10.6	44.4	41.3	540.8	45	24.3	35.8	32.8
31.25	11.7	42.9	39.9	541.4	45	23.6	33.9	30.9
62.5	17.0	38.4	35.4	542.5	45	21.5	27.8	24.8
100	22.0	35.3	32.3	543.0	45	20.1	23.8	20.8
155	28.1	33.8	31.8	543.9	45	18.8	20.0	18.8
200	32.4	32.1	30.6	544.5	45	18.0	17.7	17.4
240	36.0	31.4	29.2	545.1	45	16.2	16.2	16.8
350	44.9	30.1	28.1	546.1	45	12.9	12.9	16.3

ROHS Compliant