

# KUWES WIRE & CABLE

## DATA SHEET & TEST REPORT

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**Specification for Cat.5e UTP Outdoor PE 350Mhz Solid Lan Cable**  
**Item No. KS-UTP-C5E-OUTDOOR Date: June 18, 2020**

**UL 444 & CSA-C22.2 No.214: Type CMX, 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:** LDPE

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 $\Omega$  (1~100 MHz)

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 $^{\circ}$ C Max

Mutual Capacitance: 5.6 nF/m Max

Spark Test: 2.5KV

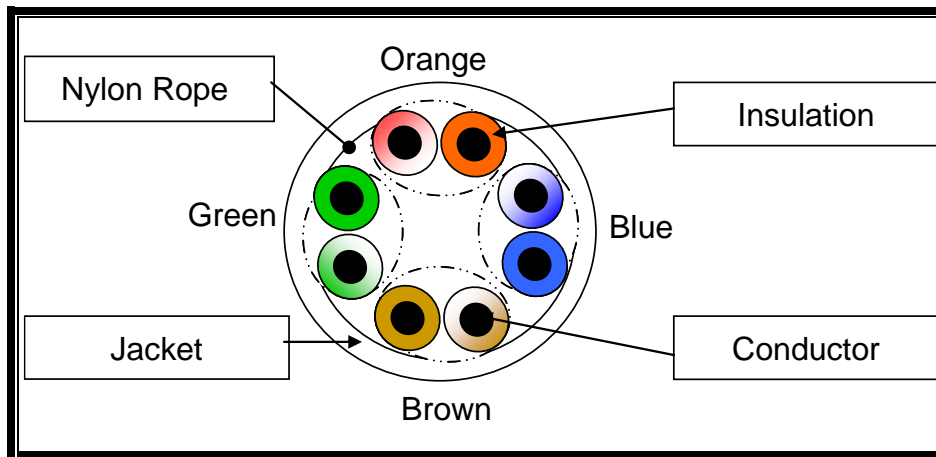
**ROHS Compliant**

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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