

# KUWES WIRE & CABLE

## DATA SHEET & TEST REPORT

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**Specification for Cat.5e U/UTP OUTDOOR PE 100Mhz Solid Lan Cable**  
**Item No. KS-EZ5E-OUTDOOR Version: A Date: March 26, 2019**

**UL 444 & CSA-C22.2 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 0.45MM BC)

**2.Insulation :** HDPE

Min. Avg. Thickness: 0.175 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.: 4.75 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

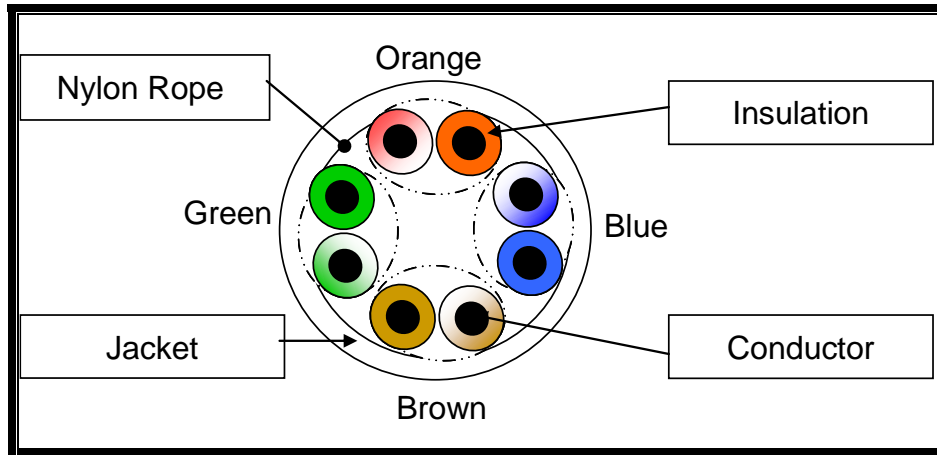
**ROHS Compliant**

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Cat.5e U/UTP Solid Lan Cable – OUTDOOR PE



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

ROHS Compliant