

# KUWES WIRE & CABLE

## DATA SHEET & TEST REPORT

1-2

**Specification for OUTDOOR PE Cat.6 S/FTP(SF/UTP) Solid Lan Cable**  
**Spec. No. S990316 Version: A Date: AUG. 04 2020**

**UL 444 & CSA-C22.2 No.214: Type CM, 24AWG x 4P**  
**ISO/IEC 11801: Horizontal Cable (Solid Conductor)**

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

**2.Insulation :** HDPE

Min. Avg. Thickness: 0.26mm;

Min. Thickness: 0.20mm

**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  
Braid Coverage 60 % ALUMINIUM WIRE braid

**5.Jacket:** 75°C BLACK 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  $\Omega$  (1~250 MHz)  
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: 5600 pF/100M Max  
Spark Test: 2.5KV  
Nominal Velocity of Propagation (NVP): 76 %

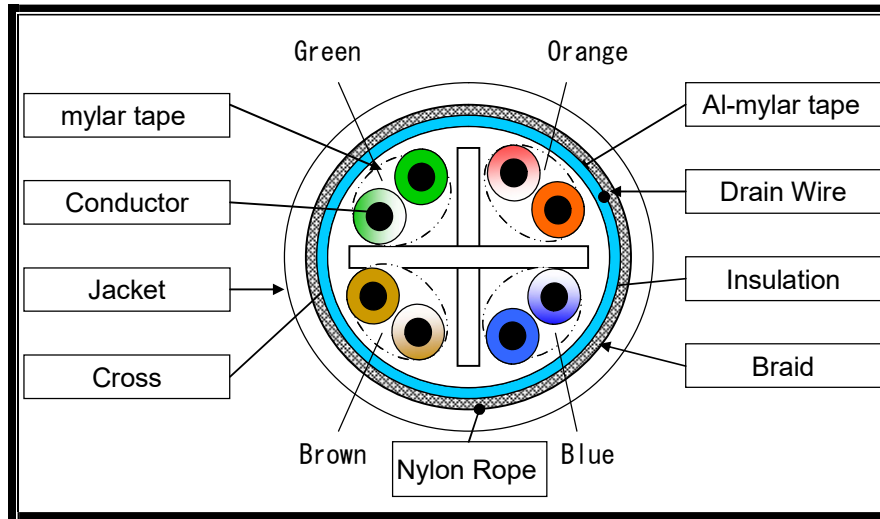
**ROHS Compliant**



# KUWES WIRE & CABLE

## DATA SHEET & TEST REPORT

### OUTDOOR PE Cat.6 S/FTP (SF/UTP) Solid Lan Cable



Frequency	Att.	Pr-Pr	PS	Prop.	Delay	Return	Pr-Pr	PS
MHz	Solid	NEXT	NEXT	Delay ns	Skew ns	Loss	ELFEXT	ELFEXT
1	2.8	74.3	72.3	570	45	20.0	67.8	64.8
10	6.5	59.3	57.3	545	45	25.0	47.8	44.8
20	8.5	54.8	52.8	542	45	25.0	41.8	38.8
31.25	10.7	51.9	49.9	540.4	45	23.6	37.9	34.9
62.5	15.4	47.4	45.4	538.6	45	21.5	31.9	28.9
100	19.8	44.3	42.3	537.6	45	20.1	27.8	24.8
200	31.0	39.8	37.8	536.5	45	18.0	21.8	18.8
250	36.8	38.3	36.3	536.3	45	17.3	19.8	16.8