

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

1-2

Specification for OUTDOOR PE Cat.6 S/FTP(SF/UTP) Solid LanCable

Version: A Date: MAR. 18 2020

UL 444 & CSA-C22.2 No.214: Type CMX, 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.: 6.8 mm +/- 0.3mm

6. Electric Requirements: (Cable length: 100M)

Characteristic Impedance(Z_0): 85 ~ 115 Ω (1 ~ 250 MHz)

DC. Resistance Capacitance Unbalance: 5%

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

Conductor Resistance: 9.38Ω / 100M 20°C Max

Mutual Capacitance: 5600 pF/100M Max

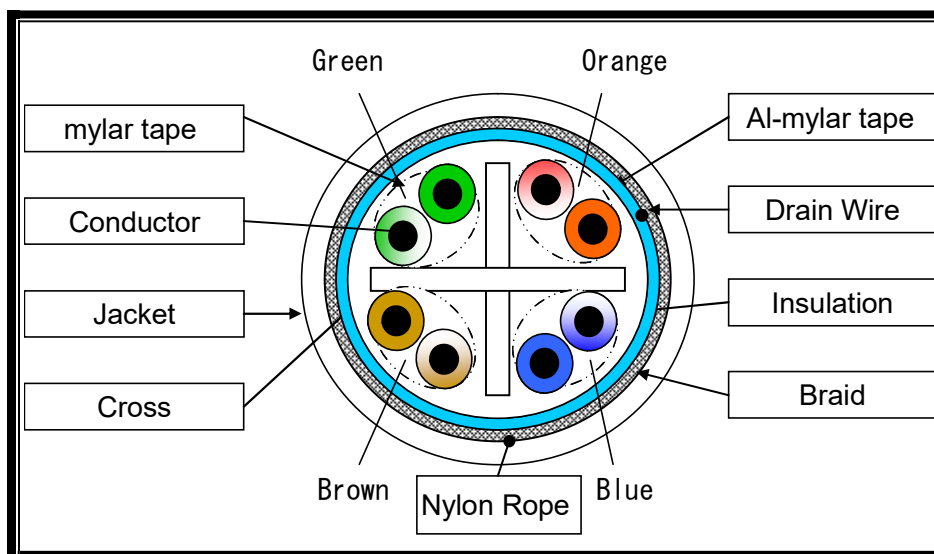
Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 76 % **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	2.8	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

