

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

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Specification for LDPE Cat.6 STP(FTP) Solid Lan Cable Date: JUNE 24, 2025

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: 0.25mm

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: Drain wire(tinned copper conductor) and aluminum-mylar tape

5.Jacket: LDPE

Min. Avg. Thickness: 0.585 mm;

Min. Thickness: 0.458 mm

Approximate O.D.: 6.6 mm +/- 0.3mm

temperature: (+80°C — -40°C)

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: 9.38 Ω / 100M 20°C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 70 %

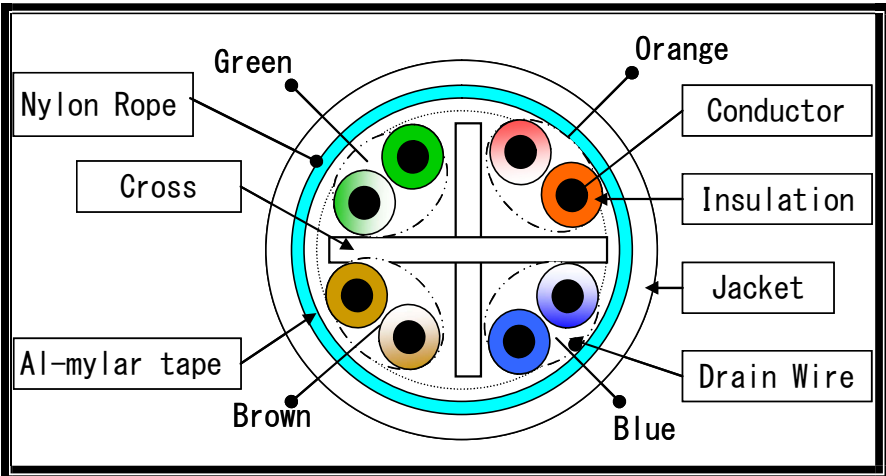
ROHS Compliant

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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	29.0	39.8	37.8	536.5	45	18.0	21.8	18.8
250	32.8	38.3	36.3	536.3	45	17.3	19.8	16.8

ROHS Compliant