

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

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Specification for Cat 6 F/UTP Solid Lan Cable
Spec. No. KS-FTP-C6 Version: C Date: JUN. 18, 2022

UL 444 & CSA-C22.2 No.214: Type CM, 24AWG x 4P

ANSI/TIA-568.2-D & ISO/IEC 11801: Horizontal Cable (Solid Conductor)

1. Conductor: Material / Size Bare copper / 24AWG

2. Insulation : HDPE

Min. Avg. Thickness: 0.28mm

Min. Thickness: 0.22mm

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: 75°C PVC Compound

Min. Avg. Thickness: 0.585 mm;

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Approximate O.D.: 7.2 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: 7.32 Ω / 100M 20°C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 70%

7. Temperature Range: Installation Temperature 0 to 50°C

Storage Temperature -20 to 70°C

Operation Temperature -10 to 60°C

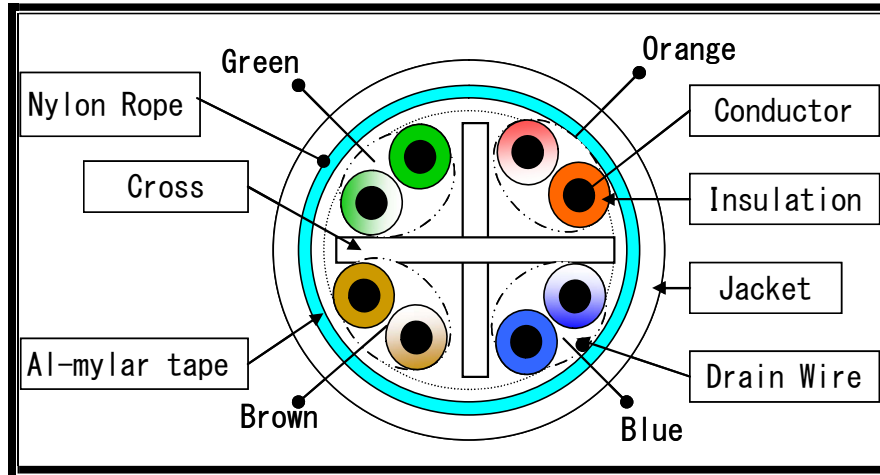
RoHS Compliant

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Cat.6 F/UTP Solid Lan Cable



Frequency MHz	Att. Solid	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
*1	2.6	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

The asterisked (*) *Values show on tables above are for reference purpose only.

ROHS Compliant