

KUWES WIRE & CABLE

DATA SHEET & TEST REPORT

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Specification for Category 7 (Class F) S/FTP Solid PVC Lan Cable
Spec. No. KS-SUPER7 Version: A Date: March 24, 2010

IEC 61156-5, ISO/IEC 11801: Horizontal Cable (Solid Conductor) 23AWG x 4P

IEC 60332-1 UL 1581 VW-1 CM

1.Conductor: Solid Bare Copper (1 x AWG23)

2.Insulation : HDPE

Min. Avg. Thickness: 0.5 mm;

Min. Thickness: 0.40 mm

3.Color Code: Pair 1: Blue & White

Pair 2: Orange & White

Pair 3: Green & White

Pair 4: Brown & White

4.Shield: Aluminum-mylar tape and Drain wire(1/0.50mm tinned copper conductor)
coverage 60% tinned copper braid

5.Jacket: 75°C PVC Compound

Min. Avg. Thickness: 0.585 mm;

Min. Thickness: 0.458 mm

Approximate O.D.: 8.2 mm +/- 0.3mm

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

Characteristic Impedance(Z_0):(1 ~ 600 MHZ 100Ω+-15Ω) (600 ~ 1000 MHZ 100Ω+-25Ω)

DC. Resistance Capacitance Unbalance: 2%

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

Conductor Resistance: 7.32Ω/ 100M 20°C Max

Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 79%

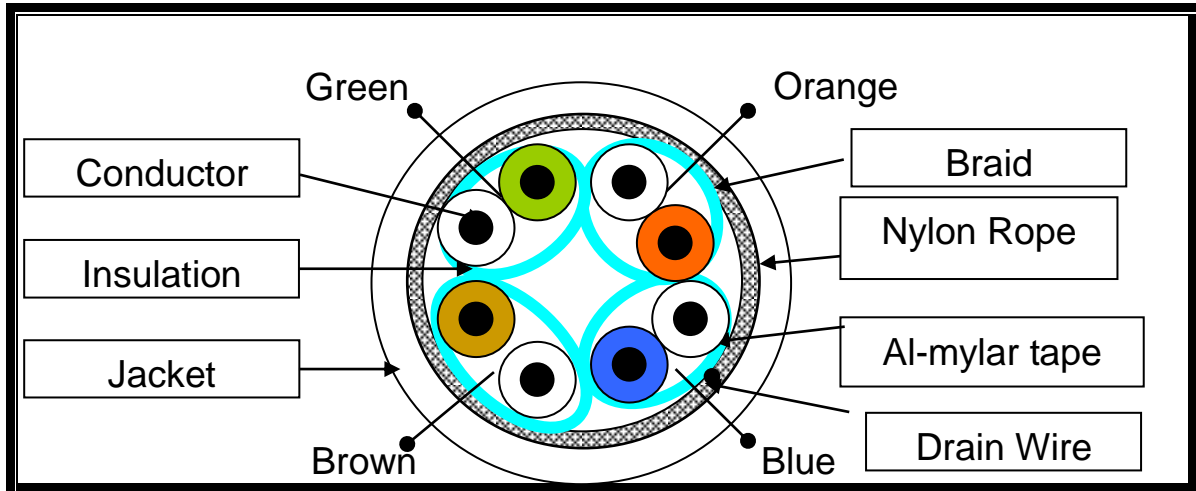
ROHS Compliant

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Frequency	Att.	Pr-Pr NEXT	PS	Prop.	Delay	Return Loss	ACR-F	PS
MHz	Solid		NEXT	Delay ns	Skew ns			ACR-F
1	2.8	78.0	75.0	512	45	20.0	78.0	75.0
10	5.8	78.0	75.0	494	45	23.0	74.0	71.0
20	8.2	78.0	75.0	487	45	25.0	68.0	65.0
31.25	10.3	78.0	75.0	485	45	23.6	64.1	61.1
62.5	14.6	75.5	72.5	484	45	21.5	58.1	55.1
100	18.5	72.4	69.4	482	45	20.1	54.0	51.0
200	26.5	67.9	64.9	481	45	18.0	48.0	45.0
250	29.7	66.4	63.4	480	45	17.3	46.0	43.0
300	32.7	65.2	62.2	479	45	17.3	44.5	41.5
400	38.0	63.4	60.4	478	45	17.3	42.0	39.0
550	45.0	61.3	58.3	478	45	17.3	39.2	36.2
600	47.1	60.7	57.7	477	45	17.3	38.4	35.4
800	54.9	58.9	55.9	477	45	16.1	35.9	32.9
900	58.5	58.1	55.1	477	45	15.5	34.9	31.9
1000	61.9	57.4	54.4	477	45	15.1	34.0	31.0

ROHS Compliant