

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: C Date: DEC. 09, 2019

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: 0.45 mm;

Min. Thickness: 0.38 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.: 8.0 mm +/- 0.3mm

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

Characteristic Impedance(Z_0):(1~600 MHZ $100\Omega\pm 15\Omega$) (600~1000 MHZ $100\Omega\pm 25\Omega$)

DC. Resistance Capacitance Unbalance: 2%

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 : Outer Jacket: 2.5KV

Insulation: 1.75KV

Dielectric Strength: 1.5KV AC/2secs

Nominal Velocity of Propagation (NVP): 76 %

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

Storage Temperature -20 to 70°C

Operation Temperature -10 to 60°C

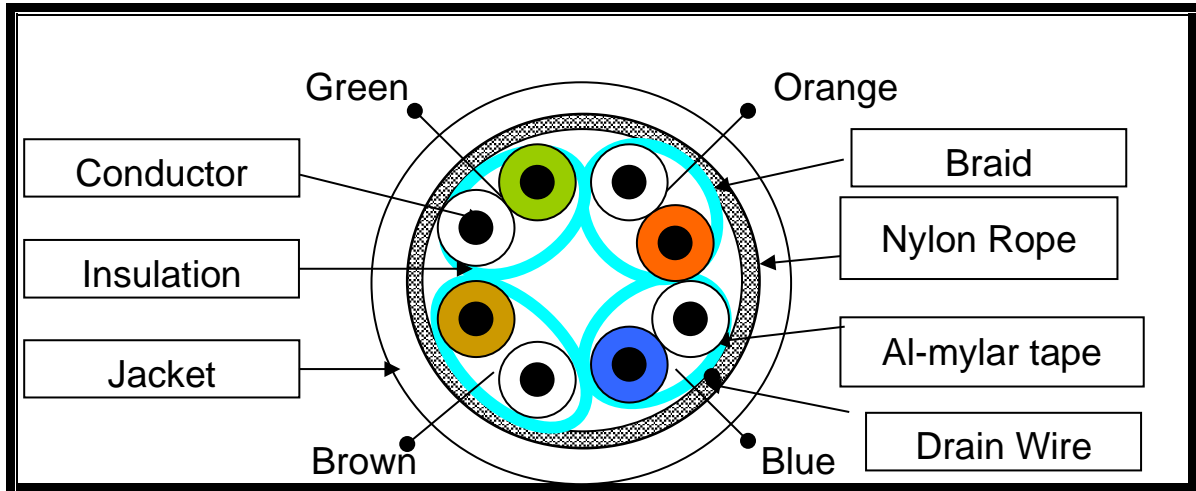
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Category 7 (Class F) S/FTP Solid Lan Cable



Frequency	Att.	Pr-Pr	PS	Prop.	Delay	Return	ACR-F	PS
MHz	Solid	NEXT	NEXT	Delay ns	Skew ns	Loss		ACR-F
*1	3.0	78.0	75.0	512	45	20.0	78.0	75.0
10	5.9	78.0	75.0	494	45	23.0	74.0	71.0
20	8.4	78.0	75.0	487	45	25.0	68.0	65.0
31.25	10.5	78.0	75.0	485	45	23.6	64.1	61.1
62.5	15.0	75.5	72.5	484	45	21.5	58.1	55.1
100	19.1	72.4	69.4	482	45	20.1	54.0	51.0
200	27.6	67.9	64.9	481	45	18.0	48.0	45.0
250	31.1	66.4	63.4	480	45	17.3	46.0	43.0
300	34.3	65.2	62.2	479	45	17.3	44.5	41.5
400	40.1	63.4	60.4	478	45	17.3	42.0	39.0
550	47.7	61.3	58.3	478	45	17.3	39.2	36.2
600	50.1	60.7	57.7	477	45	17.3	38.4	35.4
*800	55.9	58.9	55.9	477	45	16.1	35.9	32.9
*900	60.5	58.1	55.1	477	45	15.5	34.9	31.9
*1000	65.9	57.4	54.4	477	45	15.1	34.0	31.0

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

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