

RP-CAT7SF

Cat. 7 S/FTP 23AWG Solid Lan Cable

Features

- Performance tests to 600MHz
- Supports 10G Ethernet
- PVC jacket
- Pairs are individually shielded with Al-Mylar tape and overall braid for EMI protection



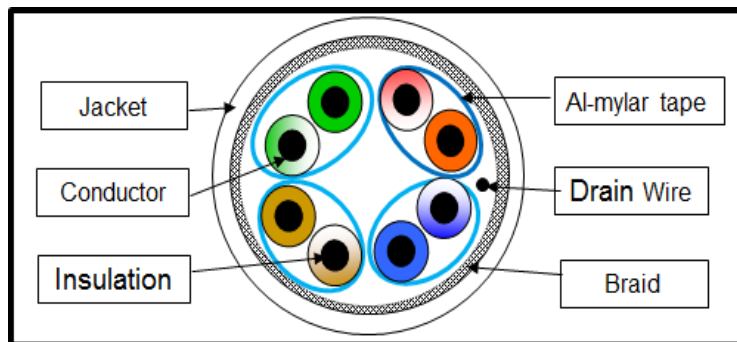
Applications

- 10G BASE-T.
- 1000G BASE-Tx.
- 10 BASE-T, 100 BASE-T (IEEE 802.3).
- ISDN, VOICE T1.
- 155/622 Mbps ATM, 100VG - ANYLAN (IEEE802.12).

Specifications

Conductor	<ul style="list-style-type: none"> • UL 444 & CSA-C22.2 No.214: Type CM, 23AWG x 4P • ISO/IEC 11801: Horizontal Cable (Solid Conductor)
Insulation	<ul style="list-style-type: none"> • HDPE(CMI-75E) • Min. Avg. Thickness: 0.45 mm • Min. Thickness: 0.38 mm
Color Code	<ul style="list-style-type: none"> • Pair 1: Blue & White /Blue • Pair 2: Orange & White/ Orange • Pair 3: Green & White/ Green • Pair 4: Brown & White/ Brown
Shield	<ul style="list-style-type: none"> • Aluminum-mylar tape and Drain wire(tinned copper conductor) coverage 60% tinned copper braid
Jacket	<ul style="list-style-type: none"> • 75°C PVC Compound (CMI-80S) • Min. Avg. Thickness: 0.585 mm; • Min. Thickness: 0.458 mm • Approximate O.D.: 8.0 mm +/- 0.3mm
Electric Requirements (Cable length: 100M)	<ul style="list-style-type: none"> • Characteristic Impedance(Z_0): 85~115Ω (1~600 MHz) • DC. Resistance Capacitance Unbalance: 2%

	<ul style="list-style-type: none"> • Pair-to-Ground Capacitance Unbalance: 330 pF/100M Max • Conductor Resistance: 9.38Ω/ 100M 20°C Max • Mutual Capacitance: 5600 pF/100m Max • Nominal Velocity of Propagation (NVP): 76 %
Spark Test	<ul style="list-style-type: none"> • Outer Jacket: 2.5KV • Insulation: 1.75KV • Dielectric Strength: 1.5KV AC/2secs
Environment	<ul style="list-style-type: none"> • Installation Temperature: 0 to 50°C • Storage Temperature: -20 to 75°C • Operation Temperature: -10 to 60°C



TRANSMISSION REQUIREMENTS

Frequency MHz	Att. Solid	Pr-Pr NEXT	PS	Prop.	Delay	Return Loss	ACR-F	PS
			NEXT	Delay ns	Skew ns			ACR-F
*1	4.0	78.0	75.0	512	45	20.0	78.0	75.0
10	8.8	78.0	75.0	494	45	23.0	74.0	71.0
20	10.2	78.0	75.0	487	45	25.0	68.0	65.0
31.25	15.3	78.0	75.0	485	45	23.6	64.1	61.1
62.5	18.6	75.5	72.5	484	45	21.5	58.1	55.1
100	20.5	72.4	69.4	482	45	20.1	54.0	51.0
200	28.5	67.9	64.9	481	45	18.0	48.0	45.0
250	30.7	66.4	63.4	480	45	17.3	46.0	43.0
300	35.7	65.2	62.2	479	45	17.3	44.5	41.5
400	40.0	63.4	60.4	478	45	17.3	42.0	39.0
550	47.0	61.3	58.3	478	45	17.3	39.2	36.2
600	50.5	60.7	57.7	477	45	17.3	38.4	35.4

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

Ordering information

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