

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

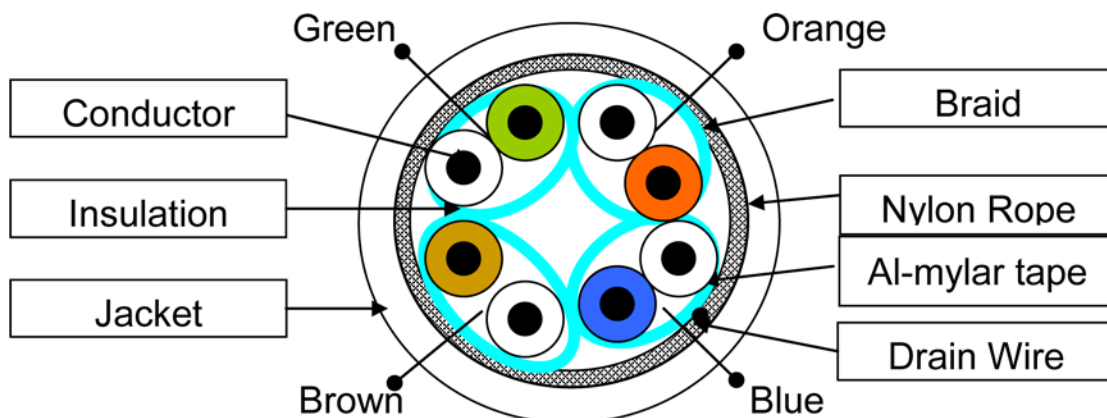
- 10G BASE-T.
- 1000G BASE-Tx.
- 10 BASE-T, 100 BASE-T (IEEE 802.3).
- ISDN, VOICE T1.
- 155/622 Mbps ATM, 100VG - ANYLAN (IEEE802.12).

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 70% 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)

- Characteristic Impedance(Z_0): 85~115 Ω (1~600 MHz)
- DC. Resistance Capacitance Unbalance: 3%
- Pair-to-Ground Capacitance Unbalance: 330 pF/100M Max
- Conductor Resistance: 7.32 Ω / 100M 20 $^{\circ}$ C Max
- Mutual Capacitance: 5600 pF/100m Max
- Spark Test: 2.5KV
- Nominal Velocity of Propagation (NVP): 76 %



TRANSMISSION REQUIREMENTS

Frequency MHz	Att. Solid	Pr-Pr NEXT	PS	Prop. Delay ns	Delay Skew ns	Return Loss	ACR-F	PS
			NEXT					ACR-F
*1	3.4	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

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

Ordering information

RP-CAT7SF Cat. 7 S/FTP 23AWG Solid Lan Cable

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