



Lan Cable CAT6

UL Listed

Plenum/CMP

Technical Datasheet

Applications

IEEE 802.3: 1000 BASE-T Gigabit Ethernet, 100 BASE-TX, 10 BASE-T, 155 Mb/s and 622 Mb/s ATM, ANSI X3.263: 100 Mb/s, Broadband and Baseband Analog Video and transport of High Definition 1920x1080p and Ultra High Definition 4K/2k signals when used in conjunction with an HDMI or HD BASE-T extender between a source and a display.

Physical Characteristics	Certifications
Conductor: 23 AWG (0.57±0.005mm) Solid Copper	ISO9001, ISO14001, OHSAS18001
Number of Insulation: 4P	UL 444,
Separator: FEP Cross	UL listed Type: CMP
Insulation: 1.00±0.005mm FEP/3P, 1.00±0.005mm HDPE/1P	ETL listed Type: CMP ETL Verified Type: ANSI/TIA-568-C.2
Insulation Color Code: 1. Brown*White/Brown(FEP) 2. Blue*White/Blue (FEP) 3. Orange*White/Orange(HDPE)	RoHS 2.0 / REACH Compliant
4. Green*White/Green (FEP)	Electrical Properties
Rip Cord: Nylon	Capacitance: 5.6nF/100m.Nom Characteristic Impedance: 100±15% Ohms.Nom
Jacket: Flame-Retardant & RoHS Compliant PVC	Velocity of Propagation: 68.0% Nom.

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Jacket Color Code: 5.7±0.2mm	DCR Conductor: 7.32 Ohms/100m.Nom
Minimum Bend Radius: 10 mm	D-C Resistance Unbalance: 5% MAX
Temperature Rating (°C):	Propagation Delay: 250MHz 536ns/100m Max
Installation: 0 to +60	Delay Skew: 45ns/100m MAX
Storage & Operation: -20 to +75	Attenuation & Crosstalk: 90 Meters Link Test

Electrical Performance

Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	Phrase DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	68.0	65.0
4.0	23.0	3.78	65.3	552.00	63.3	56.0	53.0
8.0	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10.0	25.0	5.95	59.3	545.38	57.3	48.0	45.0
16.0	25.0	7.55	56.2	543.00	54.2	43.9	40.9
20.0	25.0	8.47	54.8	542.05	52.8	42.0	39.0
25.0	24.3	9.51	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.67	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.80	44.3	537.60	42.3	28.0	25.0
200	18.0	28.98	39.8	536.54	37.8	22.0	19.0
250	17.3	32.85	38.3	536.27	36.3	20.0	17.0