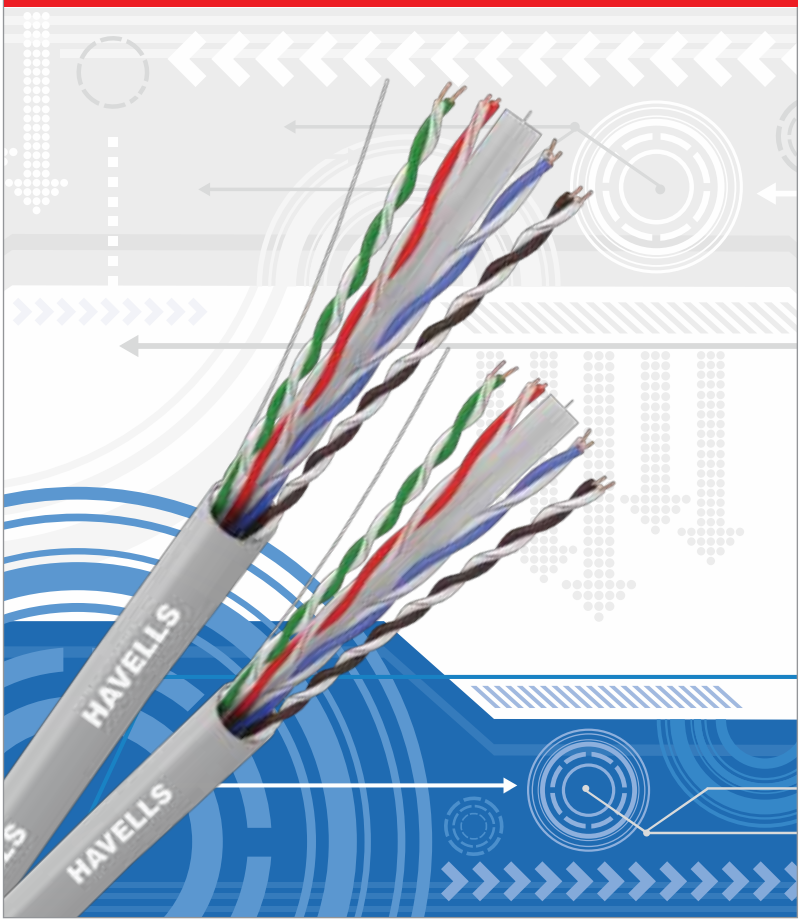
CAT 6 LAN Cable (with star Separator)



Complete Networking Solutions

Features:

- Excellent bending radius
- Longer cable segment length
- High speed data access
- Best transmission performance
- Flame retardant covering of cable

QRG GROUP

HAVELLS

Introduction of Cat 6 LAN Cable

CAT 6 cable is one of the latest standards in high-fidelity data transfer cabling. Consisting of four pairs of twisted cores, the cable is engineered to significantly reduce cross talk and interference. These characteristics allow CAT 6 cables to be used in installations capable of performance up to 250 megahertz (MHz).

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250MHz.

Cross separator ensure permanent stability of the physical structure for enhance long term performance of cable.

The Cables are verified to the performance requirements of ANSI/ TIA-568-C.2 and ISO/IEC 11801.

Unshielded twisted pair (UTP) cable is used in many home and business-based Ethernet networks. It has four pairs of wires that are housed inside of the lining of the cable. Each pair is twisted to prevent interference from other devices on the network.

Colour Code

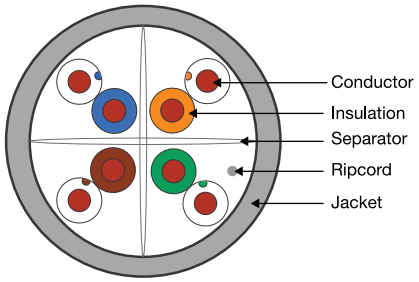
Pair 1 - White – Blue and Blue
Pair 2 - White – Orange and Orange
Pair 3 - White – Green and Green
Pair 4 - White – Brown and Brown

Technical Requirements

Description	
Conductor	23 AWG Bare Solid Copper
Insulation	Special Grade PE
Separator	Highly Grade material to enhance transmission performance of cable
Ripcord	Under jacket
Jacket	Flame Retardant PVC
Cable Diameter	6.5 mm (appx.)

Electrical characteristics	
Max. DC Resistance @ 20°c	9.38 Ohm/ 100 Mtr
Di-electric strength at 50 Hz	1 kV/1 Minute
Insulation Resistance (Min.)	500 M ohm/100 mtr
Impedance	100+15 Ohms
Mutual Capacitance (Max.)	5.60 nf /100 Mtr
Capacitance Unbalance Pair to Ground (Max.)	330 pF / 100 Mtr
Nominal Velocity of Propagation	65% @ 250 MHz
Delay Skew (Max)	45 ns
Propagation Delay @ 20°c, 100 MHz	538 ns / 100 Mtr @ 250 MHz

Cross Section View



Transmission Parameter as per 100 Mtr.								
Frequency MHz	Attenuation (MHz) Max. dB	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR (dB)
1	2.00	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.80	23.0	65.3	63.3	55.8	52.8	61.5	59.3
8	5.30	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.00	25.0	59.3	57.3	47.8	45.8	53.3	51.3
16	7.60	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.50	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.50	24.2	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.70	23.3	51.9	49.9	37.9	34.9	41.2	39.2
62.50	15.00	21.0	47.4	45.4	31.9	28.9	32.0	30.0
100	19.80	19.5	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.80
250	32.8	17.0	38.3	36.3	19.8	16.8	5.50	3.50

Havells India Ltd.
Corp Office: QRG Towers, 2D, Sector-126, Expressway, Noida-201304 (U.P)
Ph. +91-120-3331000, Email: marketing@havells.com, www.havells.com
Consumer Care No.: 1800 11 0303 (Tollfree), 011-4166 0303 (Landline), 1800 103 1313 (All Connections)
Join us on Facebook at www.facebook.com/havells and share your ways to save the planet!
CIN - L31900DL1983PLC016304.

HAVELLS