

APPLICATION

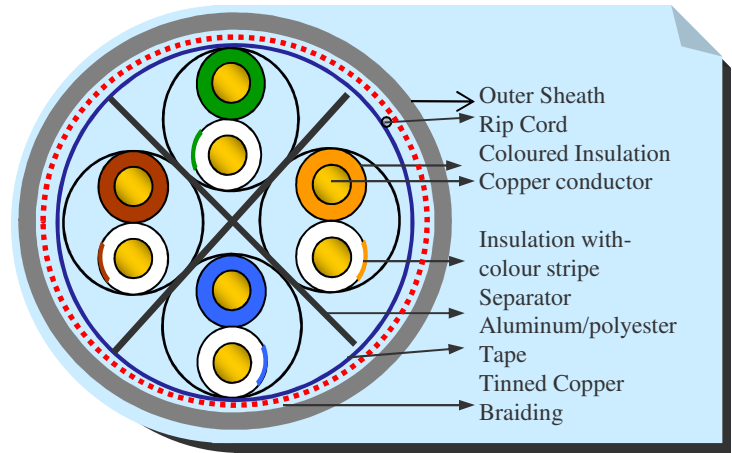
Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000baseT) standard. Operates at bandwidth of 250MHz. This cable well exceeds the requirements of ANSI/TIA-568-C.2. & ISO/IEC 11801 Ed. 2.0

FEATURES

The shield acts as a Faraday cage to reduce electrical noise from affecting the signals, and to reduce electromagnetic radiation that may interfere with other devices . Tinned Copper Braiding provides mechanical strength to cable.

CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Sheath	: LSZH
Shield	: Aluminum / Polyester Tape : Tinned Copper Braiding



Cable Diameter : 7.5 ± 0.3 mm

Printing : Each meter printed with

STERLITE CATEGORY 6 SF/UTP ANSI/TIA-568-C.2 4/23 AWG LSZH Month/Year XXX M
Or as per Customer Request

COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White-Orange Stripe and Orange
3-6	White-Green Stripe and Green
4-5	White-Blue Stripe and Blue
7-8	White-Brown Stripe and Brown

ELECTRICAL PROPERTIES

Characteristic Impedance	: $100 \pm 15 \Omega$
Conductor Resistance	: $\leq 9.38\Omega/100m$
Mutual Capacitance	: $< 5.6nF/100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: $330pF/100m$
Delay Skew	: $< 45nS$

Approved and Issued By
Head Technical

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CONTACT

Works: Survey No. 33/1/1, Waghdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396230 INDIA

Website : www.sterlitetechnologies.com



TRANSMISSION CHARACTERISTICS PER 90M PL

Frequency (MHz)	Insertion Loss Max.(dB)	NEXT (dB) Min.	ACR-N (dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	PS ACR-N (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.9	65	62	19.1	62	59	64.2	61.2
4	3.5	64.1	60.6	21	61.8	58.3	52.1	49.1
8	5	59.4	54.4	21	57	52.1	46.1	43.1
10	5.5	57.8	52.3	21	55.5	49.9	44.2	41.2
16	7	54.6	47.6	20	52.2	45.2	40.1	37.1
20	7.9	53.1	45.2	19.5	50.7	42.8	38.2	35.2
25	8.9	51.5	42.7	19	49.1	40.2	36.2	33.2
31.25	10	50	40	18.5	47.5	37.6	34.3	31.3
62.5	14.4	45.1	30.8	16	42.7	28.3	28.3	25.3
100	18.6	41.8	23.3	14	39.3	20.7	24.2	21.2
200	27.4	36.9	9.6	11	34.3	7	18.2	15.2
250	31.1	35.3	4.2	10	32.7	1.6	16.2	13.2

MECHANICAL PROPERTIES

Bending Radius : 8 x Cable Diameter at $-20^{\circ}\text{C} \pm 1^{\circ}\text{C}$
Pulling Force : 11.5Kg
Temperature Range
Installation : 0° to $+50^{\circ}\text{C}$
Operation : -20° to $+70^{\circ}\text{C}$

FLAME PROPERTIES

Flammability Test – IEC 60332-1
Acid Gas Emission Test – IEC 60754-1
Smoke Density Test – ASTM 2843
Flame requirements meets Euro Class Dca-s2-d2-a1

CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568-C.2, ISO/IEC 11801 Ed. 2.0

AVAILABLE CABLE COLOR

Grey,Blue,Violet
Or as per Customer Request

PACKING

Available in Reels of 305m Length OR As per Customer's Request

Issued Date : 26.04.2019

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