

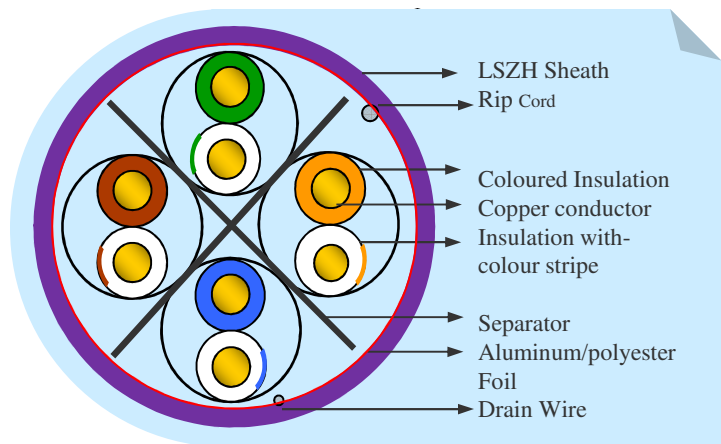
APPLICATION

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

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 .

CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Sheath	: LSZH
Shield	: Aluminum / Polyester Foil
Cable Diameter	: 7.3±0.2 mm



Printing : Each meter printed with
STERLITE CATEGORY 6 F/UTP 4/23 AWG LSZH ANSI/TIA-568-C.2 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 ± 15 Ω
Conductor Resistance	: ≤ 9.38Ω/100m
Mutual Capacitance	: < 5.6nF/100m
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: < 45nS

Approved and Issued By

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Head Technical

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

AVAILABLE CABLE COLOR

Light Grey, Violet

Or as per Customer Request

PACKING

Available in Reels of 305m Length OR As per customer Request

Issued Date : 26.04.2019

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