

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 .

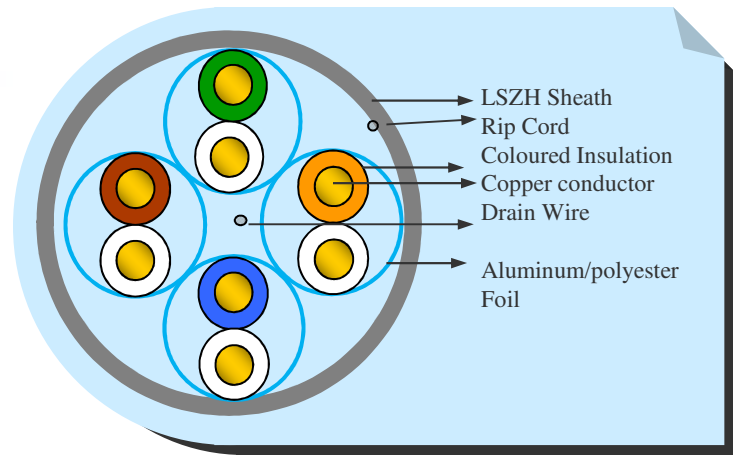
CONSTRUCTION

Conductor : 23 AWG Solid bare Copper

Insulation : Polyethylene Foam
Pairs : 2 Insulated conductors
twisted together

Sheath : LSZH

Shield : Aluminum / Polyester Foil
: Tinned Copper Drain Wire



Cable Diameter : 7.3 ± 0.3 mm

Printing : Each meter printed with

STERLITE CATEGORY 6 U/FTP ANSI/TIA-568-C.2 4/23 AWG LSZH Month/Year XXX M

COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White and Orange
3-6	White and Green
4-5	White and Blue
7-8	White 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 100M

Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT(dB)	ACR (dB)	PSACR (dB)
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	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	8.8
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5

MECHANICAL PROPERTIES

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

FLAME PROPERTIES

Flammability Test – IEC 60332-1
Acid Gas Emission Test – IEC 60754-1
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, Orange, Violet
Or as per Customer Request**

PACKING

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

Issued Date : 07.07.2019

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