

APPLICATION

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (100 baseT) standard. Operates at bandwidth up to 100MHz.

This cable well exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801

Approval : UL Listed E257005



& ETL - UL Verified to ANSI/TIA-568-C.2

CONSTRUCTION

Conductor : 24 AWG Solid bare Copper

Insulation : High Density Polyethylene

Pairs : 2 Insulated conductors
twisted together

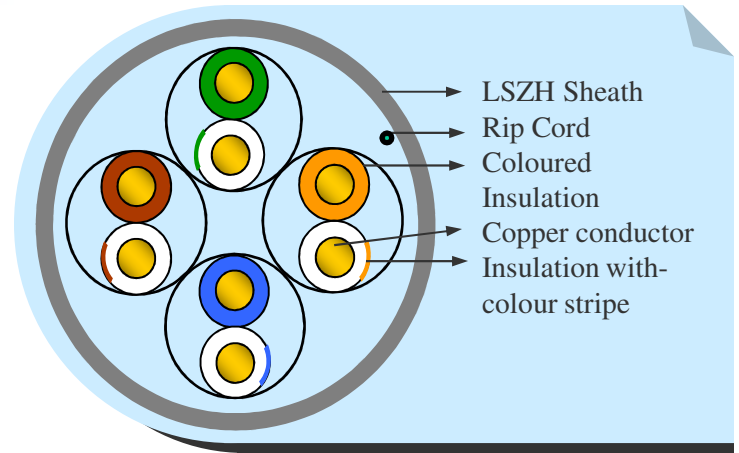
Sheath : LSZH

Cable Diameter : 5.0±0.2 mm

Printing : Each meter printed with

**STERLITE CATEGORY 5e ANSI/TIA-568-C.2 4/24 AWG UTP 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

Characteristics Impedance	: 100 ± 15 Ohms
Conductor Resistance	: ≤ 9.38 Ω/100m
Mutual Capacitance	: < 5.6nF/100m
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: < 45nS

Issued Date : 07.07.2019

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	65.3	62.3	63.8	60.8	63.3	60.3
4	4.1	23.0	56.3	53.3	51.8	48.8	52.2	49.2
8	5.8	24.5	51.8	48.8	45.7	42.7	46.0	43.0
10	6.5	25.0	50.3	47.3	43.8	40.8	43.8	40.8
16	8.2	25.0	47.2	44.2	39.7	36.7	39.0	36.0
20	9.3	25.0	45.8	42.8	37.8	34.8	36.5	33.5
25	10.4	24.2	44.3	41.3	35.8	32.8	33.9	30.9
31.25	11.7	23.6	42.9	39.9	33.9	30.9	31.2	28.2
62.5	17.0	21.5	38.4	35.4	27.9	24.9	21.4	18.4
100	22.0	20.1	35.3	32.3	23.8	20.8	13.3	10.3

MECHANICAL PROPERTIES

Bending Radius : < 4 X Cable Dia (mm) at -20°C ± 1°C
Pulling Force : 100 N
Temperature Range
Installation : 0° to + 50°C
Operation : -20° to +70°C

AVAILABLE COLORS

Grey – RAL 7040 , RAL 7035
Blue – RAL 5017, RAL 5012

CONNECTION SYSTEM

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

FLAME PROPERTIES

Flammability Test – IEC 60332-1
Acid Gas Emission Test – IEC 60754-1
Flame requirements meets Euro Class Eca

PACKING

Available in easy-pull boxes of guaranteed 305m Length
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