

APPLICATION

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (10GbaseT) standard. Operates at bandwidth of 500MHz. This cable complies to the requirements of ANSI/TIA-568-C.2 & ISO/IEC 11801.

FEATURES:

Shield gives Protection against Electromagnetic Interference and avoid signal loss & Lower pair to pair Crosstalk

CONSTRUCTION

Conductor : 23 AWG Solid bare Copper

Insulation : Foamed Polyethylene

Pairs : 2 Insulated conductors twisted together

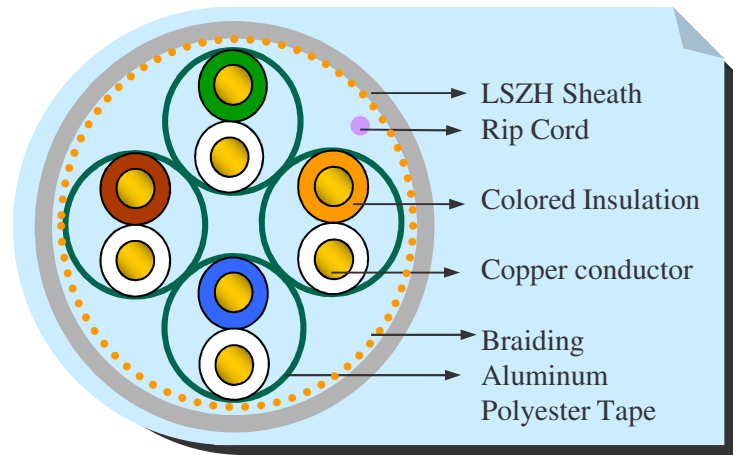
Individual Pair Shield : Aluminum / Polyester Tape

Overall Screen : Tinned Copper Braiding

Sheath : LSZH

Cable Diameter : 7.5 ± 0.4 mm

Printing : **STERLITE CATEGORY 6A S/FTP 4/23 AWG LSZH ANSI/TIA-568-C.2 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

Page 1 of 2

CONTACT

Works: Survey No. 33/1/1, Waghdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396191 INDIA

Website : www.sterlitetechnologies.com



TRANSMISSION CHARACTERISTICS – 100 M

| Frequency (MHz) | Max attenuation(dB/100M) | RL (dB) | NEXT (dB) | PSNEXT (dB) | ACRF | PSACRF |
|-----------------|--------------------------|---------|-----------|-------------|------|--------|
| 1 | 2.1 | 20.0 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 3.8 | 23.0 | 65.3 | 63.3 | 55.8 | 52.8 |
| 10 | 5.9 | 25.0 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 7.5 | 25.0 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 8.4 | 25.0 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 10.5 | 23.6 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 15 | 21.5 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 19.1 | 20.1 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 27.6 | 18.0 | 39.8 | 37.8 | 21.8 | 18.8 |
| 250 | 31.1 | 17.3 | 38.3 | 36.3 | 19.8 | 16.8 |
| 300 | 34.3 | 16.8 | 38.1 | 35.1 | 18.3 | 15.3 |
| 500 | 45.3 | 15.2 | 34.8 | 31.8 | 13.8 | 10.8 |

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 Dca-s2-d2-a1

MECHANICAL PROPERTIES

Bending Radius : Min. 8 x Cable Diameter

Pulling Force : 11.5Kgs

Temperature Range

Installation : 0° to +50°C

Operation : -20° to +70°C

AVAILABLE CABLE COLOR

Natural, Grey, Violet Or as per Customer Request

PACKING

Available in Reels of 305M or Longer as per Customer Specific

Issued Date : 26.04.2019

Approved and Issued By

Page 2 of 2

Head Technical

CONTACT

Works: Survey No. 33/1/1, Waghdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396191 INDIA

Website : www.sterlitetechnologies.com