

<u>Category 6 S/FTP Cable</u>
Part No : SLITE 2205

STL/Cat6/S/FTP/2205
ISS/Rev : 01/00

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 : Polyethylene Foam
Pairs : 2 Insulated conductors

twisted together

Sheath : LSZH

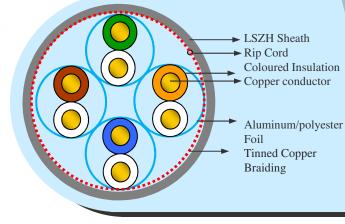
Inner Shield : Aluminum / Polyester Foil

Outer Shield : Tinned Copper Braiding

Cable Diameter : 7.5 ± 0.3 mm

Printing : Each meter printed with

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



COLOUR CODE

| PAIR NO | COLOUR |
|---------|------------------|
| 1-2 | White and Orange |
| 3-6 | White and Green |
| 4-5 | White and Blue |
| 7-8 | White and Brown |

ELECTRICAL PROPERTIES

 $\begin{array}{lll} \text{Characteristic Impedance} & : 100 \pm 15 \ \Omega \\ \text{Conductor Resistance} & : \leq 9.38 \Omega/100 \text{m} \\ \text{Mutual Capacitance} & : \leq 5.6 \text{nF}/100 \text{m} \\ \text{Resistance Unbalance} & : 5\% \ \text{Max} \\ \text{Capacitance Unbalance} & : 330 \text{pF}/100 \text{m} \\ \text{Delay Skew} & : < 45 \text{nS} \\ \end{array}$

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TRANSMISSION CHARACTERISTICS PER 100M

| Frequency | Insertion Loss | RL (dB) | NEXT | PSNEXT | ELFEXT | PSELFEXT(| ACR | PSACR |
|-----------|----------------|---------|------|--------|--------|-----------|------|--------------|
| MHz | (dB/100m) | | (dB) | (dB) | (dB) | dB) | (dB) | (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 : $8 \times \text{Cable Diameter at } -20^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Pulling Force: 11.5KgTemperature Range: -20° to $+70^{\circ}$ CInstallation: 0° to $+50^{\circ}$ 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

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