

Category 6 SF/UTP Cable
Part No : SLITE 2203

STL/Cat6/SF/UTP/2203
ISS/Rev : 01/01

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 : High Density Polyethylene

Pairs : 2 Insulated conductors

twisted together

Sheath : LSZH

Shield : Aluminum / Polyester Tape

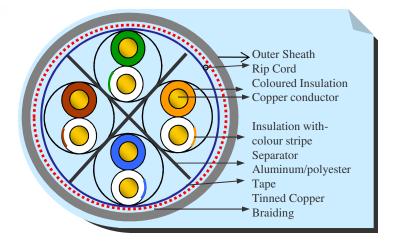
: Tinned Copper Braiding

Cable Diameter : 7.4 ± 0.3 mm

Printing: Each meter printed with

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

Or as per Customer Request



COLOUR CODE

| PAIR NO | COLOUR | | | | |
|---------|--------------------------------|--|--|--|--|
| 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

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

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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 : $8 \times \text{Cable Diameter at } -20^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Pulling Force: 11.5Kg

Temperature Range

Installation: 0° to $+50^{\circ}$ COperation: -20° to $+70^{\circ}$ 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 Cca-s1a-d0-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,Violet

Or as per Customer Request

PACKING

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

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Head Technical

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