

APPLICATION

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250MHz.

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

Approval : ETL Verified to ANSI/TIA-568-C.2 & ISO/IEC 11801 - UL Verified to ANSI/TIA-568-C.2

CONSTRUCTION

**Conductor** : 23 AWG Solid bare Copper

**Insulation** : High Density Polyethylene

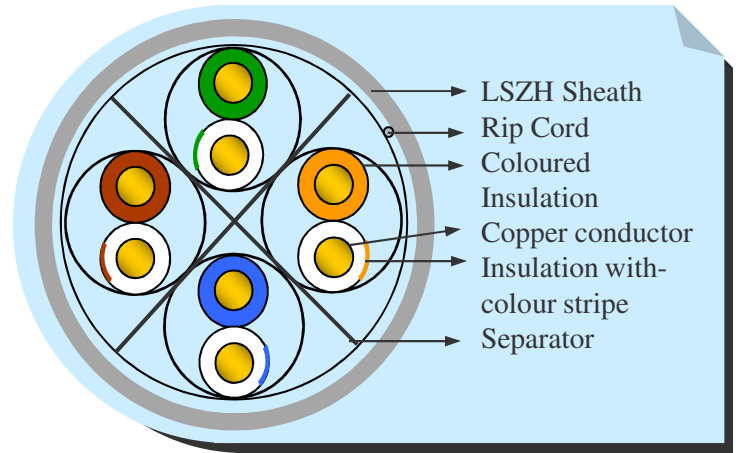
**Pairs** : 2 Insulated conductors  
twisted together

**Seperator** : Polyolefin

**Sheath** : LSZH

**Cable Diameter** : 6.0± 0.2 mm

**Printing** : Each meter printed with  
‘Customer Specific Information’ & sequential Length Counter



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

|                                 |                |
|---------------------------------|----------------|
| <b>Characteristic Impedance</b> | : 100 ± 15 Ω   |
| <b>Conductor Resistance</b>     | : ≤ 9.38Ω/100m |
| <b>Mutual Capacitance</b>       | : < 5.6nF/100m |
| <b>Resistance Unbalance</b>     | : 5% Max       |
| <b>Capacitance Unbalance</b>    | : 330pF/100m   |
| <b>Delay Skew</b>               | : < 45nS       |

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Head Development

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CONTACT

Works: Survey No. 33/1/1, Wagdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396230 INDIA

Website : [www.sterlitetechnologies.com](http://www.sterlitetechnologies.com)



## TRANSMISSION CHARACTERISTICS

| Frequency<br>MHz | Insertion Loss<br>(dB/100m) | RL (dB) | NEXT<br>(dB) | PSNEXT<br>(dB) | ELFEXT<br>(dB) | PSELFEXT(<br>dB) | ACR<br>(dB) | PSACR<br>(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 :** : < 4 X Cable Diameter (mm) at -20°C ± 1°C  
**Pulling Force** : 11.5Kgs  
**Temperature Range**  
Installation : 0° to + 50°C  
Operation : -20° to +70°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 and ISO/IEC 11801**

### AVAILABLE CABLE COLOR

**Light Grey – RAL 7035**  
**Or as per Customer Request**

### PACKING

**Available in Reel in Boxes/Reel of 305 Meters.**  
**Or As per Customer Request**

Issued Date : 26.04.2019

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