

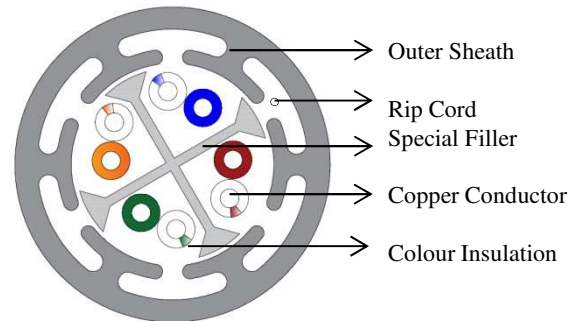
APPLICATION

Enhanced performance patent pending cable design 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 Ed. 2.2
Patent Pending for Special Filler & Jacket

CONSTRUCTION

| | |
|-------------------|--|
| Conductor | : 23 AWG Solid bare Copper |
| Insulation | : High Density Polyethylene |
| Pairs | : 2 Insulated conductors twisted together |
| Filler | : Special Filler |
| Sheath | : LSZH |



Cable Diameter : 7.6 ± 0.4 mm

Printing : Each meter printed with
STERLITE CATEGORY 6A U/UTP ANSI/TIA-568-C.2 4/23 AWG LSZH DD/MM/YY 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

| | |
|---------------------------------|--------------------------|
| 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 | : $< 45nS$ |

Issued Date : 22.05.2019

Approved and Issued By

Head Development

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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

| 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 | 37.1 | 35.1 | 18.3 | 15.3 |
| 500 | 45.3 | 15.2 | 33.8 | 31.8 | 13.8 | 10.8 |

Alien Cross Talk Test complaint in field condition as per standard implementation best practices ,
Cable Complies to ANSI/TIA-568-C.2 90 M Permanent Link Alien Cross Talk Test

MECHANICAL PROPERTIES

Bending Radius : < 8 x Cable Diameter
Pulling Force : 100 N
Temperature Range
Installation : 0° to + 50°C
Operation : -20° to +75°C

CONNECTION SYSTEM

Compatible with all common systems according to
ANSI/TIA-568-C.2 & ISO/IEC 11801 Ed. 2.2

AVAILABLE CABLE COLOR

Grey , Violet,
Or as per Customer Request

FLAME PROPERTIES

Flammability Test – IEC 60332-1
Acid Gas Emission Test – IEC 60754-1
Flame requirements meet Euro Class Cca-s1a-d1-a1

PACKING

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

Issued Date : 08.07.2019

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Head Development

Note: Reserve the right to change the construction without any notice.

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