

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 : UL Listed E257005  & UL - ETL Verified to ANSI/TIA-568-C.2

CONSTRUCTION

**Conductor** : 23 AWG Solid bare Copper

**Insulation** : High Density Polyethylene

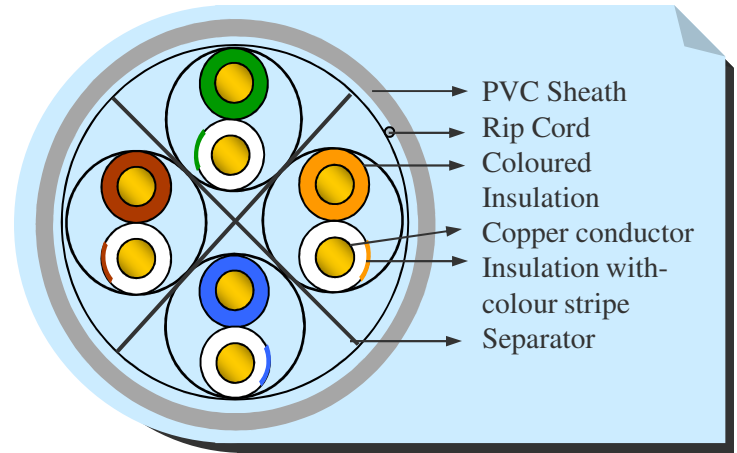
**Pairs** : 2 Insulated conductors twisted together

**Seperator** : Polyolefin

**Sheath** : FR PVC

**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

Approved and Issued By

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 MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT( dB)	ACR (dB)	PSACR (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**

### **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, Dark Grey RAL 7037  
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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