

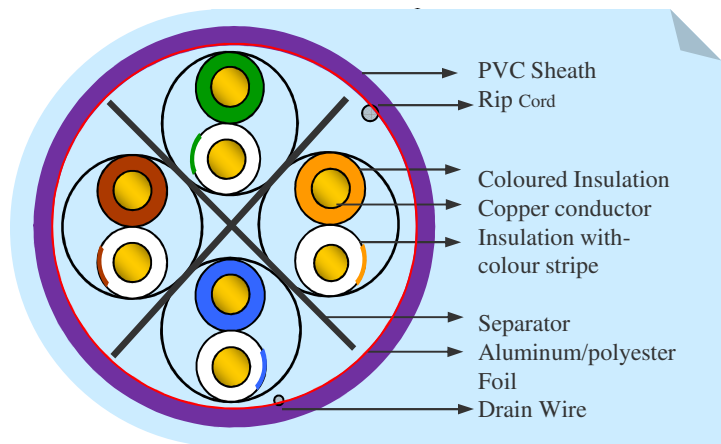
## APPLICATION

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

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 .

## CONSTRUCTION

<b>Conductor</b>	: 23 AWG Solid bare Copper
<b>Insulation</b>	: High Density Polyethylene
<b>Pairs</b>	: 2 Insulated conductors twisted together
<b>Sheath</b>	: FR PVC
<b>Shield</b>	: Aluminum / Polyester Foil
<b>Cable Diameter</b>	: $7.3 \pm 0.2$ mm



**Printing** : Each meter printed with  
**STERLITE CATEGORY 6 F/UTP 4/23 AWG ANSI/TIA-568-C.2 Month/Year 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

<b>Characteristic Impedance</b>	: $100 \pm 15 \Omega$
<b>Conductor Resistance</b>	: $\leq 9.38 \Omega/100m$
<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

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Head Technical

## CONTACT

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

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



## 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 x Cable Diameter at  $-20^{\circ}\text{C} \pm 1^{\circ}\text{C}$

**Pulling Force** : 11.5Kg

#### **Temperature Range**

Installation :  $0^{\circ}$  to  $+50^{\circ}\text{C}$

Operation :  $-20^{\circ}$  to  $+70^{\circ}\text{C}$

### FLAME PROPERTIES

Flammability Test – IEC 60332-1

### CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568-C.2

### AVAILABLE CABLE COLOR

Light Grey, Violet, Blue

Or as per Customer Request

### PACKING

Available in Reels of 305m Length OR As per customer Request

Issued Date : 26.04.2019

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