

## APPLICATION

Enhanced performance cable 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 well exceeds the requirements of ANSI/TIA-568-C.2.

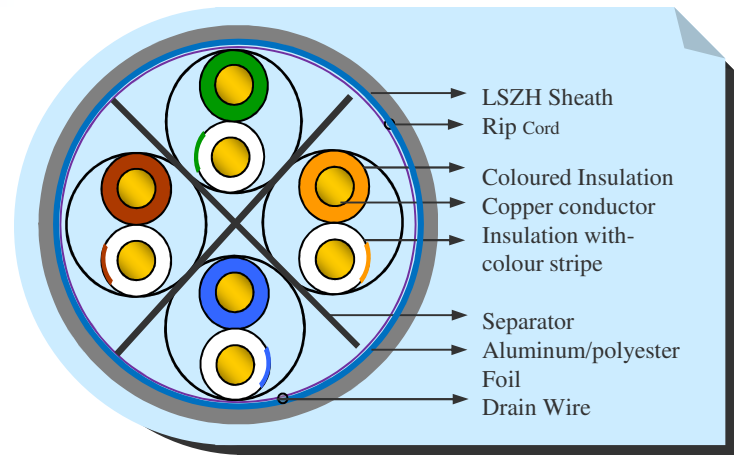
The shield acts as a Faraday cage to reduce electrical noise from affecting the signals, and to reduce electromagnetic radiation that may interfere with other devices.

## 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>	: LSZH
<b>Shield</b>	: Aluminum / Polyester Tape

Cable Diameter :  $7.3 \pm 0.3$  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>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

Head Technical

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



## **TRANSMISSION CHARACTERISTICS 90 M PERMANENT LINK**

Frequency (MHz)	Insertion Loss Max.(dB)	NEXT (dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.9	65	19.1	62	64.2	61.2
4	3.5	64.1	21	61.8	52.1	49.1
8	5	59.4	21	57	46.1	43.1
10	5.5	57.8	21	55.5	44.2	41.2
16	7	54.6	20	52.2	40.1	37.1
31.25	9.8	50	18.5	47.5	34.3	31.3
62.5	14	45.1	16	42.7	28.3	25.3
100	18.0	41.8	14	39.3	24.2	21.2
200	26.1	36.9	11	34.3	18.2	15.2
250	29.5	35.3	10	32.7	16.2	13.2
300	32.7	34.0	9.2	31.4	14.6	11.6
500	43.8	26.7	8.0	23.8	10.2	7.2

### **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  $+70^{\circ}\text{C}$

### **CONNECTION SYSTEM**

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

### **FLAME PROPERTIES**

Flammability Test – IEC 60332-1  
Acid Gas Emission Test – IEC 60754-1  
Flame requirements meets Euro Class Dca-s2-d2-a1

### **AVAILABLE CABLE COLOR**

Grey, Violet ,Natural Or as per Customer Request

### **PACKING**

Available in Reels of 305m Length.

Issued Date : 26.04.2019

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