

APPLICATION

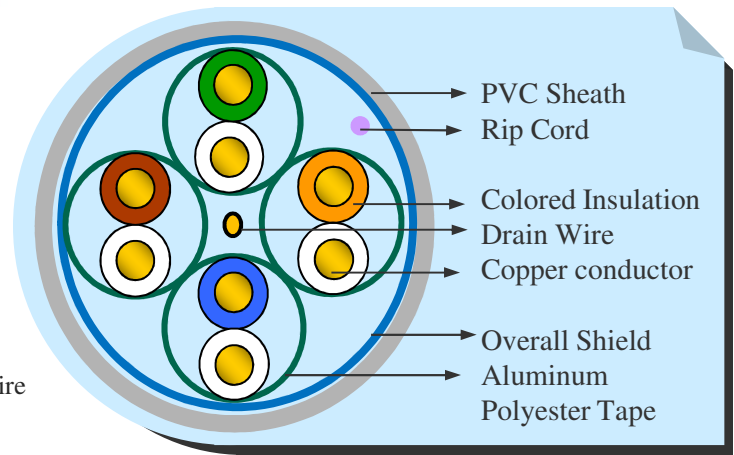
Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (10GbaseT) standard. Operates at bandwidth of 500MHz. This cable complies to the requirements of ANSI/TIA-568-C.2 & ISO/IEC 11801.

FEATURES:

Shield gives Protection against Electromagnetic Interference and avoid signal loss & Lower pair to pair Crosstalk

CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper
Insulation	: Foamed Polyethylene
Pairs	: 2 Insulated conductors twisted together
Individual Pair Shield	: Aluminum / Polyester Tape
Overall Shield Sheath	: Aluminum / Polyester Tape & Drain wire : FR PVC



Cable Diameter : 7.6 ± 0.3 mm

Printing : **STERLITE CATEGORY 6A F/FTP 4/23 AWG ANSI/TIA-568-C.2 Month/Year XXX M**

COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White and Orange
3-6	White and Green
4-5	White and Blue
7-8	White 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	: $< 45nS$

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-396191 INDIA

Website : www.sterlitetechnologies.com



TRANSMISSION CHARACTERISTICS – 100M

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	38.1	35.1	18.3	15.3
500	45.3	15.2	34.8	31.8	13.8	10.8

Alien Cross Talk Test complaint according to ANSI/TIA-568-C.2 in field condition as per standard implementation best practices

CONNECTION SYSTEM

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

FLAME PROPERTIES

Flammability Test – IEC 60332-1

MECHANICAL PROPERTIES

Bending Radius : Min. 8 x Cable Diameter

Pulling Force : 11.5Kgs

Temperature Range

Installation : 0° to +50°C

Operation : -20° to +70°C

AVAILABLE CABLE COLOR

Natural, Grey, Blue Or as per Customer Request

PACKING

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

Issued Date : 26.04.2019

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