

APPLICATION

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Ethernet - 100 base T standard. Operates at bandwidth of 100 MHz. This cable well exceeds the requirements of ANSI/TIA-568-C.2 & ISO/IEC 11801.

FEATURES

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 . Tinned Copper Braiding provides mechanical strength to cable.

CONSTRUCTION

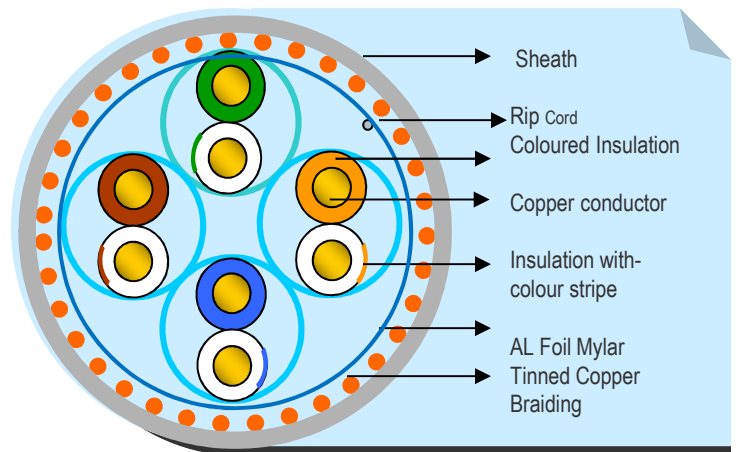
Conductor : 24 AWG Solid bare Copper

Insulation : High Density Polyethylene
Pairs : 2 Insulated conductors
twisted together

Shield : Aluminum / Polyester Foil
Screen : Tinned copper Braiding

Sheath : PVC
Cable Diameter : 6.3 ± 0.2 mm

Printing : Each meter printed with
STERLITE CATEGORY 5e SF/UTP 4/24 AWG ANSI/TIA-568-C.2 Month/Year XXX M



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

Conductor Resistance	: $\leq 9.38\Omega/100m$
Mutual Capacitance	: $< 5.6nF/100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: $330pF/100m$
Dielectric Strength	: 2.5 KVDC for 2 Seconds
Insulation Resistance	: 5000 M ohm-km
Characteristics Impedance	: 100 +/- 15 Ohms
Delay Skew	: $< 45nS$

Approved and Issued By

Head Technical

Page 1 of 2

CONTACT

Works: Survey No. 33/1/1, Wagdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396230 INDIA Tel: +912606613815 Fax: +912606613801



TRANSMISSION CHARACTERISTICS 90M PERMANENT LINK

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	RL (dB)	PS NEXT (dB)	ACR-F (dB)	PS ACR-F (dB)
1	3	60	19	57	58.6	55.6
4	3.9	54.8	19	51.8	46.6	43.6
8	5.5	50	19	47	40.6	37.6
10	6.2	48.5	19	45.5	38.6	35.6
16	7.9	45.2	19	42.2	34.5	31.5
20	8.9	43.7	19	40.7	32.6	29.6
25	10	42.1	18	39.1	30.7	27.7
31.25	11.2	40.5	17.1	37.5	28.7	25.7
62.5	16.2	35.7	14.1	32.7	22.7	19.7
100	21	32.3	12	29.3	18.6	15.6

MECHANICAL PROPERTIES

Bending Radius : < 8 x Cable Diameter
Pulling Force : 9.5 Kgs
Temperature Range
Operation : -20° to +70°C
Installation : 0° to +50°C

CONNECTION SYSTEM

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

AVAILABLE CABLE COLOR

Dark Grey – RAL 7037
Light Grey – RAL 7035
Blue –RAL 5012 ,Or as per Customer Request

FLAME PROPERTIES

Flammability Test – IEC 60332-1

PACKING

Available in 305meter Reels or as per customer requirement

Issued Date : 07.07.2019

Approved and Issued By
Head Technical

Page 2 of 2

CONTACT

Works: Survey No. 33/1/1, Wagdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396230 INDIA Tel: +912606613815 Fax: +912606613801