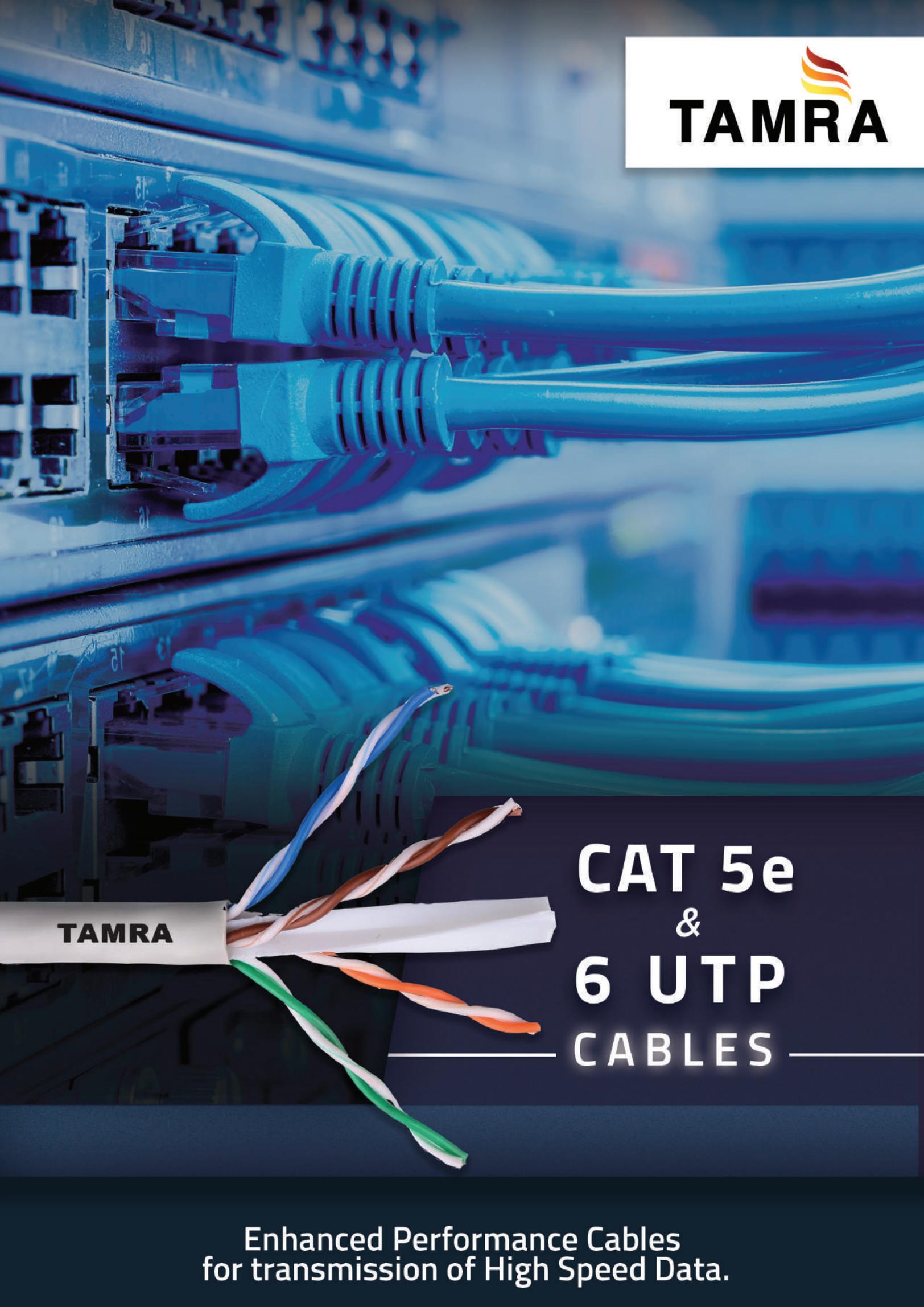




TAMRA



TAMRA

**CAT 5e
&
6 UTP
CABLES**

Enhanced Performance Cables
for transmission of High Speed Data.

NETWORKING DATA CABLES

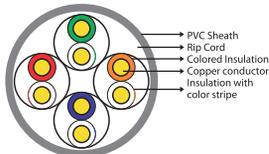
Enhanced performance cables for transmission of high speed data, digital and analogue voice and video (RGB) signals of LAN's. Supports Gigabit Ethernet standards (1000 base T). Operates at bandwidth up to 100 MHz for CAT-5e and 250 MHz for CAT-6. The cable meets the requirements of EIA/TIA 568 B.2 and ISO-11801

CONSTRUCTION

- CONDUCTOR** - Solid/stranded, Annealed Bare Electrolytic Grade Copper conductors.
- INSULATION** - High Density Polyethylene
- PAIR** - Two Cores are twisted to form a pair. The lay of the pairs are chosen to minimize the Cross talk, and Structural return loss (SRL). The four pairs are further laid up. A separator between pairs is inserted in CAT-6 cable to minimize crosstalk between pairs at high frequencies.
- COLOUR CODING OF PAIRS** - Pair 1 - WHITE - BLUE / BLUE Pair 2 - WHITE - ORANGE / ORANGE
Pair 3 - WHITE - GREEN / GREEN Pair 4 - WHITE - BROWN / BROWN
- SHEATH** - FR / FRLS / ZHFR PVC Printing : At every meter with sequential marking
- RIP CORD** - PP / Polyester
- SHIELDING** - FTP : Aluminium mylar and polyester tape with ATC drain wire in contact with aluminium tape.
STP : Aluminium mylar tape with copper / alloy braiding upto 96%+coverage.

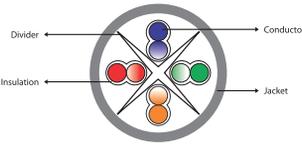
APPLICATION

- Horizontal Distribution & Backbone Cabling
- 100 Base TX / 1000 Base TX / 100 Base VG Anylan
- 155 ATM / 622 ATM
- IEEE 802.3 / IEEE 802.5
- 16 Mbps Token Ring
- Gigabit Ethernet



ELECTRICAL & TRANSMISSION CHARACTERISTICS

- DC Resistance (OHMS 100 meters at 20°C) - 9.13 for a single copper conductor
- DC Resistance Unbalanced (percent), max. - 5
- Pair-to-Ground Capacitance Unbalanced - 330 (pF / 100 meters), Max
- Impedance (ohms) 100MHz - 100±15%



APPLICATION

- Gigabit Ethernet
- ATM 622 or higher
- Broadband video (77 channels, 550MHz)

ELECTRICAL & TRANSMISSION CHARACTERISTICS

- DC Resistance Unbalanced - 5(percent), max.
 - Pair-to-Ground Capacitance - 330 Unbalanced (pF / 100 meters), Max
 - Impedance (ohms) - 100 ± 15%
- Packing : 100 mtr coils / 305 mtr tangle free cartons.**

CAT-5e

Frequency (MHz)	Worst Pair Near-End Cross talk (db), min	Attenuation (db/100 Meters at 20°C), Max	Structural Return Loss (db) Min.
0.772	64	1.8	-
1	62	2	23
4	53	4.1	23
8	49	5.8	23
10	47	6.5	23
16	44	8.2	23
20	42	9.3	23
25	41	10.4	22
31.25	39	11.7	21
62.5	35	17	18
100	32	22	16

CAT-6

Frequency (MHZ)	ATT (db/100m) max.	Ps. Next (db) min.	PS. ACR (db@100m) min.	PS. Elfext (db@100m) min.	R.L. (db@100m) min.
1	2	72.3	70.3	64.8	20
4	3.8	63.3	59.5	52.7	23
8	5.4	58.8	53.4	46.7	24.5
10	6	57.3	51.3	44.8	25
16	7.6	54.3	46.7	40.7	25
20	8.5	52.8	44.3	38.7	25
25	9.6	51.3	41.7	36.8	24.3
31.25	10.7	49.9	39.2	34.9	23.6
62.5	15.5	45.1	29.9	28.8	21.5
100	19.9	42.3	22.4	24.8	20.1
155	25.3	39.5	14.2	20.9	18.8
200	29.2	37.8	8.6	18.7	18
250	33	36.3	3.3	16.8	17.3



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Ahmedabad - 382445

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