

TRICOM DIGITAL NETWORKING CABLE

4 PAIR 24AWG CAT 6 UTP FRPVC CABLE

DESCRIPTION:

Cat 6 UTP Data Cable Consists of 4 Pair PE Insulated 24AWG Solid Annealed Bare Copper Conductors, Cross Filler, Rip Cord and FRPVC Outer Jacket

APPLICATION:

These structure cable suitable for Gigabyte Ethernet Applications and compatible with all known connection Systems, Ideal for high performance workstation applications including voice/data systems, Digital video, Broadband and Voice over internet protocol etc.

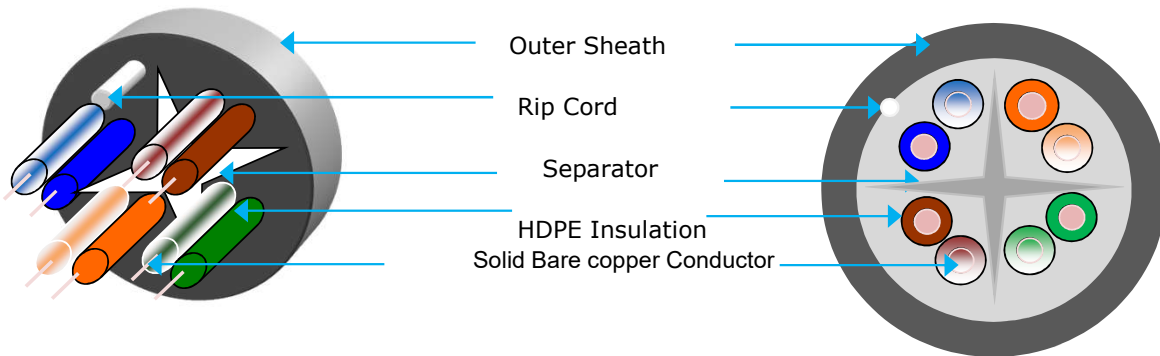
FEATURES:

*Complies to the requirements of ANSI/TIA 568 C.2 and ISO/ IEC 11801 – 2nd Edition ;

*Cable Characterized up to 250 MHz,

*Packing Pull out box

CABLE CONSTRUCTION & CROSS-SECTION:



Conductor	24 AWG Solid Annealed Bare Copper conductor
Insulation	High Density Polyethylene, Diameter $0.95 \pm 0.05\text{mm}$
Pairs	Two Insulated conductors Twisted together to form pair ,lay ≤ 38
Twisting	4 pairs laid together over X-Separator , lay length $\leq 130\text{mm}$
Jacket	FRPVC Compound
Colour	Grey or as per request.
Cable Diameter	$5.7 \pm 0.3 \text{ mm}$

Colour Code:

Pair - 1		Pair - 2		Pair - 3		Pair - 4	
White/Blue	Blue	White/Orange	Orange	White/Green	Green	White/Brown	Brown,

Cable Marking:

Marking Medium: Ink Jet Printing in contrasting Colour on the Cable Surface at every Meter with sequential length counter

Marking Text: As per below or per PO

“ TRICOM CABLE 4 PAIR 24 AWG CAT6 UTP MM/YY ”

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ELECTRICAL CHARACTERISITICS;

Conductor Resistance@20°C	Max 9.38 Ω/100m
Conductor Resistance Unbalance	Max 5 %
Mutual Capacitance	Max. 5.6 nF/100m
Capacitance Earth Unbalance	Max. 160 pF/100m
Voltage rating	Max 72Vdc
Dielectric strength	1kvdc or 0.75 kvAC for 1minute
Insulation Resistance@500VDC, 1 minute	Min. 5000 M.Ohm km
Propagation Delay @ 1, 10, 100 & 250 MHz	Max. 570, 545, 538 & 536 ns/100 m
Characteristic Impedance (1-250 MHz	100 ± 15Ω
Nominal velocity of Propagation	69%
Propagation DeLay Skew 1 – 250 MHz	Max. 45 ns/100 m

TRANSMISSION CHARACTERISTICS:

Freq (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACRF (ELFEXT) (dB)	PSACRF [PSELFEXT] (dB)	Return Loss (dB)	Remarks
	Max.	Min.	Min.	Min.	Min.	Min.	
1	2.1	65	62	63.3	60.3	19	Cable shall be Unwinded in Air
4	4	63	60.5	51.2	48.2	19	
8	5.7	58.2	55.6	45.2	42.2	19	
10	6.3	56.6	54	43.3	40.3	19	
16	8	53.2	50.6	39.2	36.2	18	
20	9	51.6	49	37.2	34.2	17	
25	10.1	50	47.3	35.3	32.3	17	
31.25	11.4	48.4	45.7	33.4	30.4	17	
62.5	16.5	43.4	40.6	27.3	24.3	14	
100	21.3	39.9	37.1	23.3	20.3	12	
200	31.5	34.8	31.9	17.2	14.2	9	
250	36	33.1	30.2	15.3	12.3	8	

Note; Supplied cable shall be passed Fluke channel Test.Cable measurements are made on100m length at 20°C . Length pulled out of their packages and released on a non-conductive surface as described in ANSI/TIA-568-C.2.

MECHANICAL PROPERTIES:

Bending radius(fixed): 4 x overall diameter (min.)

Bending radius(Installation): 8 x overall diameter (min.)

Breaking strength: 400 N (max.)

THERMAL CHARACTERISITICS:

Operating Temperature - 20°C to +70°C

Installation Temperature 0°C to +50°C

Storage Temperature 0°C to +50°C

STANDARD LENGTH & PACKING:

Packing Length	305m
Pull out Box Dimension (L:B:H)	16 x 16 x 8"
Reel-in-Box Dimension (L:B:H)	14 x 13 x 10"

TRICOM DIGITAL

PLOT NO 2, BLDG NO B, NEIL COMPLEX, RAHANAL VILLAGE,BHIWANDI, MAHARASHTRA - 421302

Email: sales@tricomdigital.com

PH- 022-23879617

Website: www.tricomdigital.com