



DATA TRANSMISSION CABLE
UTP 25 x 2 x 24 AWG CAT 5

Specifications: ISO/IEC 11801, EN 50173, EIA/TIA 568B.

Application: The cable is suitable for voice and data transmission in high frequency applications such as ISDN, LAN, ATM, TPDDI etc.

Description:

- 0.51mm (nominal) plain copper conductors.
- Polyethylene insulation
- Insulated wires twisted in pairs.
- Pairs stranded in units.
- Plastic tape wrapping
- Outer jacket: PVC, gray-coloured (other colours available if especially ordered)

Certification: 25-pair cable is UL verified.



Pair identification colour code:

Unit Nr	Pair Nr	Conductor-a	Conductor-b	Unit Binding Tape
1	1	ORANGE	BROWN	WHITE
	2	WHITE	BLUE	
	3	WHITE	ORANGE	
	4	WHITE	GREEN	
	5	WHITE	BROWN	
2	6	WHITE	BLUE	RED
	7	WHITE	ORANGE	
	8	WHITE	GREEN	
	9	WHITE	BROWN	
3	10	WHITE	BLUE	WHITE
	11	WHITE	ORANGE	
	12	WHITE	GREEN	
	13	WHITE	BROWN	
4	14	WHITE	BLUE	WHITE
	15	WHITE	ORANGE	
	16	WHITE	GREEN	
	17	WHITE	BROWN	
5	18	WHITE	BLUE	WHITE
	19	WHITE	ORANGE	
	20	WHITE	GREEN	
	21	WHITE	BROWN	
6	22	WHITE	BLUE	BLUE
	23	WHITE	ORANGE	
	24	WHITE	GREEN	
	25	WHITE	BROWN	



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Cable Diameter and Weight:

Outer Diameter (mm) (nominal)	15
Weight (kg/km) (nominal)	210

Basic Electrical and Transmission Characteristics (20°C)

DC Conductor Resistance	88 Ohm/Km max.
Resistance unbalance	1.0% max.
Characteristic Impedance	100 ± 15% Ω at 1-100 MHz 125 ± 20 % Ω at 0.064 - 1 MHz
Mutual Capacitance	50±3 nF/km max. at 1.0 KHz
Capacitance Unbalance to Earth	500 pF/km max. at 1.0 KHz
LCL	80 dB min. at 64 KHz
Operating Voltage	100 V max.
Dielectric Strength	1000 Volts / 1 minute DC
Velocity of Propagation	68 % nom.
Insulation Resistance	10000 MΩ · Km at 500 V DC

Frequency (Mhz)	Attenuation (dB/km)		Cross-talk (NEXT) (dB)		SRL (dB)	
	category 5 (max.)	CABLEL	category 5 (min.)	CABLEL	category 5 (min.)	CABLEL
0.772	1.8	1.8	64.0	74.0	-	-
1	2.0	2.0	62.3	73.0	23	28
4	4.1	3.9	53.3	65.0	23	30
8	5.8	5.4	48.3	62.0	23	30
10	6.5	6.2	47.3	60.0	23	30
16	8.2	7.9	44.3	58.0	23	30
20	9.2	8.8	42.8	55.0	23	28
25	10.4	9.9	41.3	53.0	22	28
31.25	11.7	11.0	39.9	50.0	21.1	28
62.5	17.0	15.9	35.4	47.0	18.1	26
100	22.0	21.0	32.3	42.0	16	24

Quality control – test protocols: All specified mechanical dimensional, electrical and transmission characteristics are tested in all production stages securing a perfect, high quality product. Protocols of electrical and transmission characteristics are available to customers upon request.

Package: The cables are delivered in drums of 1000m cable length.

Sheath marking:

“UTP 25x2x0.51 Verified by Underwriters Laboratories in accordance with CAT5 ISO/IEC 11801 + TIA/EIA 568B - CABLEL – UL registration No – Length m “.