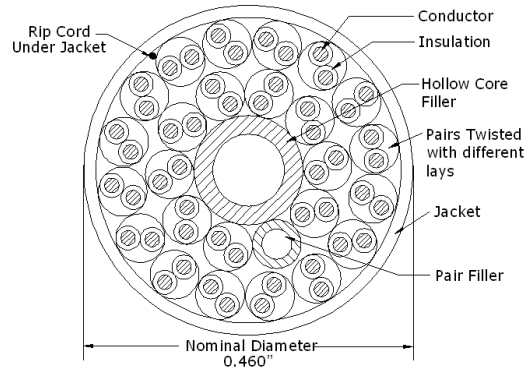


510 Series CMP 25 Pair Cat 5e UTP Cable

Cut Sheet

TE 510P25



Description

TE Connectivity Enhanced Category 5 (Cat5e) cables meet ANSI/TIA-568-C.2 Enhanced Category 5 (Category 5e) performance requirements. The TE Enhanced Category 5 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-Tx), 10 and 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, and analog and digital voice (VoIP).

TE Connectivity 25 Pair Category 5e cables are available in standard colors white, gray, blue and yellow. Packaging is on wooden reels. Additional jacket colors are also available.

Specification

Backbone cabling shall be 24 AWG, 25-pair UTP, NEC/NFPA CMP rated and be independently verified for compliance. Cable jacketing shall be white, gray, blue or yellow and shall be lead-free. Cable shall be independently verified by ETL and shall meet all ANSI/TIA requirements as well as meet the performance requirements listed in the table on page 2.

Cable performance shall be independently verified and characterized to 100MHz. Cable shall be supplied on reels. Cable shall be independently verified for flammability by UL. Flammability shall comply to NEC article 800 and CMP NFPA 262. Backbone cable shall be TE catalog number TE510P25.

ORDERING INFORMATION

Product Description	Packaging	Catalog Numbers			
		Blue	White	Gray	Yellow
Category 5e UTP Cable, 100 MHz, 25-Pair, Plenum (CMP) Rated	1000 ft Reel	TE510P25-BL02	TE510P25-WT02	TE510P25-GY02	TE510P25-YL02

Packaging: RL = 1000ft Reel



510 Series CMP 25 Pair Cat 5e Cable Cut Sheet

TE510P25

PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (Attenuation) dB/100m max	NEXT (dB) min	PSNEXT (dB) min	ACRF (dB) min	PSACRF (dB) min	RL (dB) min
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
20	9.3	45.8	42.8	37.8	34.8	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

SPECIFICATIONS

Mutual Capacitance:	5.6 nF/100 m maximum
Characteristic Impedance:	100 Ω \pm 15%, 1 - 100 MHz
Conductor DC Resistance:	28.6 Ω /1000 ft (9.38 Ω /100 m) maximum
Voltage:	300 VDC
Delay Skew:	45ns/100m maximum
Propagation Delay:	538ns/100m maximum @ 100MHz
Nominal Velocity of Propagation:	72%
Operating Temperature:	-20°C - 60°C (-4°F - 140°F)
Storage Temperature:	-20°C - 80°C (-4°F - 176°F)
Installation Temperature:	5°C - 50°C (41°F - 122°F)
Bend Radius:	4 \times cable diameter
Packaging:	1000ft Reel: 142 lbs/kft
Materials:	Conductors: 24 AWG, Solid Copper, (\varnothing .0201 nominal) Insulation: 0.037" nominal, FEP Jacket: 0.460" nominal, FR PVC
Compliances:	UL Subject 444 (UL)-C(UL) Type CMP ICEA S-90-661 ETL Verified TIA-568-C.2 Category 5e Backbone Cable Requirements 2002/95/EC RoHS



DATA SHEET



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