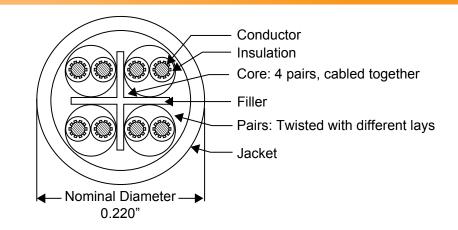
630 Series CMP Cat 6 UTP Cable Cut Sheet TE630P



Description

TE Connectivity's 630 Series cable is TE's highest performing Category 6 cable, featuring a star filler to provide additional headroom on key parameters. TE 630 Series Category 6 plenum cables feature the best in class AirES[®] technology. This patented design saves as much as 32% of the available space in cable runs and is a key component of the TE structured cabling system. The smaller diameter also saves space in the communications closet, reduces the amount of cable management accessories required and lowers the risk associated with fire and smoke in the plenum space.

The TE Category 6 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-Tx), 10/100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video and analog and digital voice (VoIP).

630 Series Category 6 UTP cables are available in standard colors including white, gray, blue and yellow. Category 6 Cables from TE feature lead-free jacketing. Packaging is on reels or reel-in-a-box, with standard put-ups being 1000 ft splice-free lengths.

Specification

Horizontal cabling shall be 23 AWG, 4-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. Individual conductors shall be 100% virgin FEP insulated. Cable shall exceed all ANSI/TIA and ISO Category 6 /Class E requirements as well as meet the performance requirements listed in the table shown on page 2.

Cable performance shall be independently verified and characterized to 600 MHz. Cable shall be supplied on reels or reel-ina-box. Independent verification for flammability compliance shall be to NEC article 800 and NFPA 70; NFPA 262. Horizontal cable shall be TE catalog number TE630P-XXYY.

ORDERING INFORMATION

	Part Numbers						
Product Description	Packaging	Blue	White	Gray	Yellow		
Category 6 UTP Cable, 4-Pair, Plenum (CMP) Rated	1000ft Reel-in-Box	TE630P-BLRB	TE630P-WTRB	TE630P-GYRB	TE630P-YLRB		
	1000 ft Reel	TE630P-BL02	TE630P-WT02	TE630P-GY02	TE630P-YL02		



PERFORMANCE DATA

FREQ MHZ	FITTED IMPEDANCE Ohms Spec	INSERTION LOSS dB/100m		RETURN LOSS dB/100m		PAIR-PAIR NEXT dB/100m		PSNEXT dB/100m	
		Max	Spec	Min	Spec	Min	Spec	Min	Spec
1	100+/-5	1.8	2.0	38.3	20.0	86.8	74.3	87.4	72.3
4	100+/-3	3.6	3.8	31.6	22.9	79.9	65.3	79.5	63.3
8	100+/-3	5.2	5.3	33.2	24.5	71.8	60.8	71.7	58.8
10	100+/-3	5.8	6.0	31.1	25.0	75.2	59.3	72.6	57.3
16	100+/-3	7.4	7.6	33.2	25.0	67.6	56.2	67.5	54.2
20	100+/-3	8.3	8.5	30.7	25.0	64.6	54.8	61.8	52.8
25	100+/-3	9.4	9.5	33.9	24.3	65.3	53.3	69.2	51.3
31.25	100+/-3	10.5	10.7	33.2	23.6	62.2	51.9	65.1	49.9
62.5	100+/-3	15.2	15.4	30.6	21.5	57.3	47.4	59.4	45.4
100	100+/-3	19.6	19.8	28.6	20.1	55.6	44.3	55.6	42.3
155	100+/-3	24.9	25.2	24.1	18.8	53.1	41.4	53.8	39.4
200	100+/-3	28.8	29.0	23.3	18.0	52.3	39.8	50.0	37.8
250	100+/-3	32.6	32.8	19.9	17.3	50.3	38.3	50.3	36.3
300	100+/-3	36.2	-	21.3	-	50.0	-	48.6	-
350	100+/-3	39.5	-	21.0	-	47.2	-	49.8	-
400	100+/-3	42.7	-	23.2	-	48.8	-	47.2	-
450	100+/-3	46.1	-	22.3	-	40.2	-	44.5	-
550	100+/-3	49.1	-	23.1	-	42.7	-	44.6	-
550	100+/-3	51.9	-	18.2	-	42.6	-	44.9	-
600	100+/-3	50.2	-	15.6	-	41.8	-	44.3	-

PERFORMANCE DATA

FREQ MHZ	PAIR-PAIR ACR dB/100m		PSACR dB/100m		PAIR-PAIR ACRF dB/100m		PSACRF dB/100m		TCL dB/100m	ELTCTL dB/100m
	Min	Spec	Min	Spec	Min	Spec	Min	Spec	Min	Min
1	85.1	72.3	82.3	70.3	77.8	67.8	72.6	64.8	40.0	35.0
4	76.3	61.5	73.1	59.5	65.2	55.8	64.9	52.8	40.0	23.0
8	66.7	55.4	66.2	53.4	59.0	49.7	58.4	46.7	40.0	16.9
10	69.5	53.3	66.7	51.3	57.4	47.8	54.2	44.8	40.0	15.0
16	60.3	48.7	60.0	46.7	53.8	43.7	53.0	40.7	38.0	10.9
20	56.5	46.3	56.0	44.3	52.1	41.8	51.0	38.8	37.0	9.0
25	56.3	43.8	55.2	41.8	49.7	39.8	48.6	36.8	36.0	7.0
31.25	51.9	41.2	50.4	39.2	48.6	37.9	47.1	34.9	35.1	5.1
62.5	42.4	32.0	39.7	30.0	43.5	31.9	42.4	28.9	32.0	-
100	36.4	24.5	35.1	22.5	38.1	27.8	37.9	24.8	30.0	-
155	28.6	16.3	28.0	14.3	31.8	24.0	31.6	21.0	28.1	-
200	24.1	10.8	22.1	8.8	32.4	21.8	30.2	18.8	27.0	-
250	18.3	5.5	17.8	3.5	30.5	19.8	28.2	16.8	26.0	-
300	14.5	-	14.0	-	31.5	-	27.9	-	-	-
350	8.3	-	7.6	-	29.8	-	27.7	-	-	-
400	6.8	-	5.6	-	28.0	-	25.5	-	-	-
450	-2.5	-	-2.9	-	27.8	-	24.0	-	-	-
500	-6.3	-	-7.1	-	26.8	-	23.4	-	-	-
550	-9.3	-	-9.7	-	22.7	-	22.1	-	-	-
600	-12.2	-	-13.1	-	18.6	-	21.4	_	-	_

NOTE: The above listed discrete frequency electrical performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements.



630 Series CMP Cat 6 UTP Cable Cut Sheet

TF630P

SPECIFICATIONS Mutual Capacitance: 5.6 nF/100 m maximum 28.6 $\Omega\!/1000$ ft (9.38 $\Omega\!/100$ m) maximum **Conductor DC Resistance:** 300 VDC Voltage: Delay Skew: 25 ns/100 m **Propagation Delay:** 470 ns/100 m @ 250 MHz Nominal Velocity of Propagation: 73% **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 × cable diameter Packaging: 1000ft Reel-in-a-box: 32 lbs/kft 1000ft Reel: 30 lbs/kft 23 AWG, Solid Copper (0.0224" nominal) Materials: Conductors: 0.039" nominal, FEP Insulation: 0.220" nominal, FR PVC Jacket: **Compliances:** UL Subject 444 (UL)-C(UL) Type CMP ICEA S-90-661 ETL Verified TIA-568-C.2 Category 6 Horizontal Cable Requirements ISO/IEC 11801 Category 6 Horizontal Cable Requirements

2002/95/EC RoHS



DATA SHEET

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