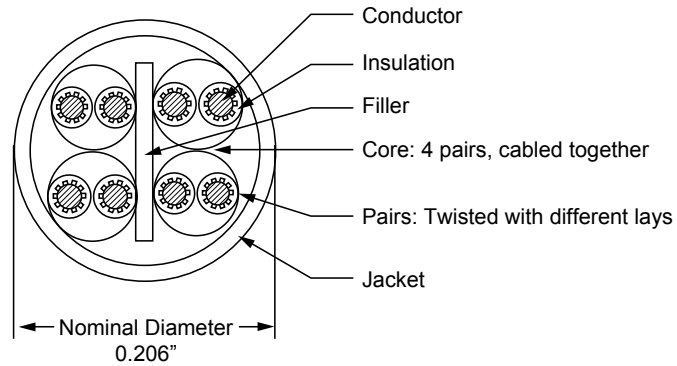


620 Series CMP Cat 6 UTP Cable Cut Sheet

TE620P



Description

TE Connectivity's 620 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.

620 Series Category 6 cables exceed ANSI/TIA-568-C Category 6 and ISO/IEC 11801 ClassE performance requirements by significant margins on all parameters. The TE Category 6 System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (100BASE-Tx), 10/100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video and analog and digital voice (VoIP).

620 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, reel-in-a-box, or a pull-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 reels, reel-in-a-box, or a pull-box. Independent verification for flammability compliance shall be to NEC article 800 and NFPA 70; NFPA 262. Horizontal cable shall be TE part number TE620P-XXYY.

ORDERING INFORMATION

Product Description	Packaging	Catalog Numbers			
		Blue	White	Gray	Yellow
Category 6 UTP Cable,4-Pair, Plenum (CMP) Rated	1000ft Reel-in-Box	TE620P-BLRB	TE620P-WTRB	TE620P-GYRB	TE620P-YLRB
	1000 ft Pull-box	TE620P-BLII	TE620P-WTII	TE620P-GYII	TE620P-YLII
	1000 ft Reel	TE620P-BL02	TE620P-WT02	TE620P-GY02	TE620P-YL02
	1000 ft Side-by-side	TE620PX2-BL02	TE620PX2-WT02	TE620PX2-GY02	TE620PX2-YL02



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PERFORMANCE DATA

FREQ MHZ	FITTED IMPEDANCE Ohms	INSERTION LOSS dB/100m		RETURN LOSS dB/100m		PAIR-PAIR NEXT dB/100m		PSNEXT dB/100m	
	Spec	Max	Spec	Min	Spec	Min	Spec	Min	Spec
1	100+/-5	1.7	2.0	28.5	20.0	83.8	74.3	81.9	72.3
4	100+/-3	3.4	3.8	32.1	22.9	74.9	65.3	74.3	63.3
8	100+/-3	4.9	5.3	35.0	24.5	74.4	60.8	71.0	58.8
10	100+/-3	5.5	6.0	34.6	25.0	70.3	59.3	68.0	57.3
16	100+/-3	7.0	7.6	31.7	25.0	67.2	56.2	66.7	54.2
20	100+/-3	7.9	8.5	32.1	25.0	66.8	54.8	64.7	52.8
25	100+/-3	8.9	9.5	36.5	24.3	65.6	53.3	63.6	51.3
31.25	100+/-3	9.9	10.7	36.7	23.6	61.8	51.9	60.9	49.9
62.5	100+/-3	14.3	15.4	34.0	21.5	61.0	47.4	59.3	45.4
100	100+/-3	18.4	19.8	30.8	20.1	60.2	44.3	57.4	42.3
155	100+/-3	23.3	25.2	27.3	18.8	54.8	41.4	51.4	39.4
200	100+/-3	26.8	29.0	31.0	18.0	54.9	39.8	52.4	37.8
250	100+/-3	30.4	32.8	28.6	17.3	49.5	38.3	48.5	36.3
300	100+/-3	33.7	-	27.2	-	49.0	-	48.2	-
350	100+/-3	36.7	-	24.3	-	46.3	-	44.8	-
400	100+/-3	39.6	-	25.0	-	47.5	-	45.2	-
550	100+/-3	47.7	-	18.6	-	40.2	-	39.4	-
600	100+/-3	47.5	-	15.2	-	38.3	-	35.4	-

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	82.2	72.3	80.3	70.3	73.6	67.8	72.6	64.8	40.0	35.0
4	71.7	61.5	71.2	59.5	62.7	55.8	61.8	52.8	40.0	23.0
8	69.8	55.4	66.4	53.4	57.2	49.7	56.2	46.7	40.0	16.9
10	65.1	53.3	62.8	51.3	55.2	47.8	54.2	44.8	40.0	15.0
16	60.5	48.7	60.0	46.7	51.1	43.7	49.8	40.7	38.0	10.9
20	59.4	46.3	57.4	44.3	49.3	41.8	48.2	38.8	37.0	9.0
25	57.3	43.8	55.3	41.8	47.4	39.8	46.5	36.8	36.0	7.0
31.25	52.5	41.2	51.3	39.2	45.5	37.9	44.4	34.9	35.1	5.1
62.5	47.3	32.0	45.7	30.0	40.1	31.9	39.4	28.9	32.0	-
100	42.7	24.5	39.8	22.5	36.8	27.8	35.9	24.8	30.0	-
155	32.4	16.3	28.9	14.3	33.6	24.0	33.2	21.0	28.1	-
200	29.6	10.8	26.9	8.8	31.7	21.8	30.6	18.8	27.0	-
250	20.3	5.5	19.3	3.5	29.1	19.8	28.9	16.8	26.0	-
300	16.6	-	15.8	-	26.2	-	25.5	-	-	-
350	10.9	-	9.4	-	21.3	-	21.8	-	-	-
400	10.1	-	7.9	-	22.1	-	22.5	-	-	-
550	-	-	-	-	25.7	-	24.7	-	-	-
600	-	-	-	-	11.5	-	9.6	-	-	-

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

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TE620P

SPECIFICATIONS

Mutual Capacitance:	5.6 nF/100 m maximum
Conductor DC Resistance:	28.6 Ω /1000 ft (9.38 Ω /100 m) maximum
Voltage:	300 VDC
Delay Skew:	25 ns/100 m
Propagation Delay:	454 ns/100 m @ 250 MHz
Nominal Velocity of Propagation:	75%
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: 31 lbs/kft 1000ft Reel: 28 lbs/kft 1000ft Pull-box: 28 lbs/kft
Materials:	Conductors: 23 AWG, Solid Copper (0.0224" nominal) Insulation: 0.039 nominal, FEP Jacket: 0.206 nominal, FR PVC
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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