

# 1-219567-3 | TE620P-BK02: CMP UTP 4/23 C6 1K'



ETL Verified Category 6 U/UTP Cable, plenum, black jacket, 4 pair count, 1000 ft (305 m) length reel

## OBSOLETE

### Replaced By:

UN874044504/10

CS37P BLK C6 4/23 U/UTP RL 1KFT

CS37P ETL Verified Category 6 U/UTP Cable, plenum, black jacket, 4 pair count, 1000 ft (305 m) length reel

## Product Classification

### Regional Availability

Asia | Australia/New Zealand | Latin America | North America

### Portfolio

NETCONNECT®

### Product Type

Twisted pair cable

## General Specifications

### Product Number

620P

### ANSI/TIA Category

6

### Cable Component Type

Horizontal

### Cable Type

U/UTP (unshielded)

### Conductor Type, singles

Solid

### Conductors, quantity

8

### Jacket Color

Black

### Note

All electrical transmission tests include swept frequency measurements

### Pairs, quantity

4

### Separator Type

Isolator

### Transmission Standards

ANSI/TIA-568.2-D | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class E

## Dimensions

### Cable Length

1000 ft | 304.8 m

### Diameter Over Jacket, nominal

0.222 in | 5.639 mm

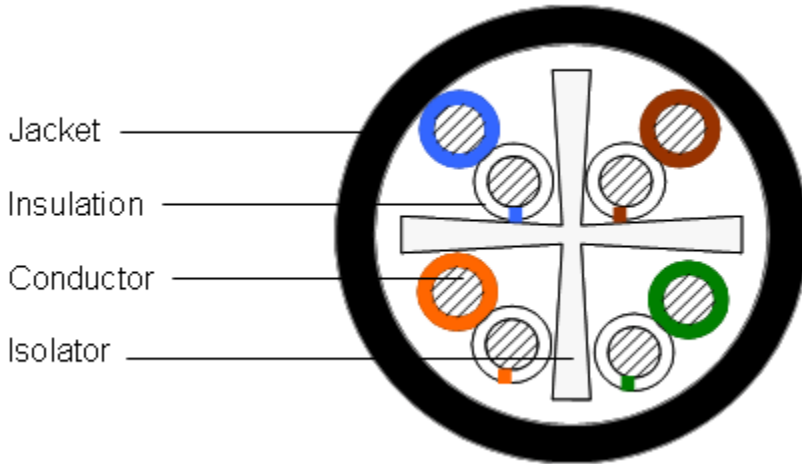
### Jacket Thickness

0.019 in | 0.483 mm

### Conductor Gauge, singles

23 AWG

## Cross Section Drawing



## Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	6.66 ohms/100 m   2.03 ohms/100 ft
<b>Delay Skew, maximum</b>	45 ns
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>Mutual Capacitance at Frequency</b>	5.4 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	74 %
<b>Operating Frequency, maximum</b>	400 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Remote Powering</b>	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
<b>Safety Voltage Rating</b>	300 V

## Electrical Cable Performance

<b>CS</b>	CommScope	<b>NEXT</b>	Near End Crosstalk (dB/100m)
<b>STD</b>	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	<b>PSNEXT</b>	Power Sum Near End Crosstalk (db/100m)
<b>TYP</b>	Typical Electrical Performance	<b>ACRF</b>	Attenuation to Crosstalk Ratio - Far End (dB/100m)
<b>IL</b>	Insertion Loss (dB/100m)	<b>RL</b>	Return Loss (dB)
<b>ACR</b>	Attenuation to Crosstalk Ratio (dB/100m)	<b>ELTCTL</b>	Equal Level Transverse Conversion Transfer Loss (dB/100m)
<b>PSACR</b>	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
<b>PSACRF</b>	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)		
<b>TCL</b>	Transverse Conversion Loss (dB/100m)		

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL			TCL		ELTCTL	
	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	CS	STD
1	2	2	1.8	77.3	74.3	90.3	75.3	72.3	88.5	75.3	72.3	88.1	73.3	70.3	86.3	68.8	67.8	84.1	65.8	64.8	82.6	20	20	32	40	40	35	35
4	3.8	3.8	3.6	68.3	65.3	82.7	64.5	61.5	79.1	66.3	63.3	80.4	62.5	59.5	76.8	56.8	55.8	72.7	53.8	52.8	71.4	23.6	23	30	40	40	23	23
8	5.3	5.3	5.1	63.8	60.8	78.1	58.5	55.4	72.9	61.8	58.8	75.8	56.5	53.4	70.6	50.7	49.7	66.9	47.7	46.7	65.5	25.4	24.5	34.3	40	40	16.9	16.9
10	5.9	6	5.8	62.3	59.3	76.5	56.4	53.3	70.7	60.3	57.3	74.3	54.4	51.3	68.5	48.8	47.8	65	45.8	44.8	63.6	26	25	34.9	40	40	15	15
16	7.5	7.6	7.3	59.2	56.2	73.5	51.7	48.7	66.1	57.2	54.2	71.3	49.7	46.7	64	44.7	43.7	61	41.7	40.7	59.5	26	25	35.2	38	38	10.9	10.9
20	8.4	8.5	8.2	57.8	54.8	72	49.4	46.3	63.8	55.8	52.8	69.8	47.4	44.3	61.6	42.8	41.8	59	39.8	38.8	57.6	26	25	35	37	37	9	9
25	9.4	9.5	9.2	56.3	53.3	70.3	46.9	43.8	61	54.3	51.3	68.2	44.9	41.8	58.9	40.8	39.8	57.1	37.8	36.8	55.7	25.3	24.3	36.1	36	36	7	7
31.25	10.6	10.7	10.3	54.9	51.9	68.9	44.3	41.2	58.6	52.9	49.9	66.8	42.3	39.2	56.5	38.9	37.9	55.2	35.9	34.9	53.8	24.6	23.6	36.4	35.1	35.1		
62.5	15.3	15.4	14.8	50.4	47.4	63.8	35.1	32	49	48.4	45.4	61.7	33.1	33	46.8	32.9	31.9	49	29.9	28.9	47.6	22.5	21.5	34.1	32	32		
100	19.7	19.8	19	47.3	44.3	60.5	27.6	24.5	41.6	45.3	42.3	58.3	25.6	22.5	39.3	28.8	27.8	44.7	25.8	24.8	43.3	21.1	20.1	32.4	30	30		
155	25	25.2	23.9	44.4	41.4	58.6	19.5	16.3	34.7	42.4	39.4	56.3	17.5	14.3	32.4	25	24	41.3	22	21	39.8	19.8	18.8	30	28.1	28.1		
200	28.8	29	27.4	42.8	39.8	55.4	14	10.8	28	40.8	37.8	53.3	12	8.8	26	22.8	21.8	38.5	19.8	18.8	37.1	19	18	29.3	27	27		
250	32.6	32.8	30.8	41.3	38.3	54	8.7	5.5	23.2	39.3	36.3	51.9	6.7	3.5	21	20.8	19.8	36.5	17.8	16.8	35	18.3	17.3	28.3	26	26		
300	36.2		34	40.1		52.2	4		18.2	38.1		50.2	2		16.2	19.3		34.6	16.3		33.1	17.8		28.2				
350	39.5		37	39.1		50.9	-0.4		14	37.1		48.9	-2.4		12	17.9		33	14.9		31.4	17.3		28.1				
400	42.7		39.7	38.3		49.9	-4.4		10.2	36.3		47.9	-6.4		8.2	16.8		30.9	13.8		29.4	16.9		28.6				
500			44.9			48			3.1			45.9			1			26.9			25.2			28.7				
550			45.2			47.5			2.3			45.5			0.3			26.9			25.2			28.5				
650			49.8			46.4			-2.5			44.2			-5.6			23.3			21.5			25.3				

## Material Specifications

<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	FEP   Polyolefin
<b>Jacket Material</b>	PVC
<b>Separator Material</b>	FEP

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	25 lb   11.34 kg
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## Environmental Specifications

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<b>Installation temperature</b>	0 °C to +60 °C (+32 °F to +140 °F)
<b>Operating Temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Environmental Space</b>	Plenum
<b>Temperature Rating, UL</b>	75 °C   167 °F
<b>Flame Test Method</b>	CMP/FT6   NFPA 262
<b>Smoke Test Method</b>	CMP/FT6   NFPA 262

## Packaging and Weights

<b>Cable weight</b>	27.76 lb/kft   41.311 kg/km
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

