

# PART NUMBER CAT6P-BLK

PLENUM: ETL TYPE CMP, C(ETL)CMP, ANSI/TIA/EIA-568 CATEGORY 6 (550 MHZ) ISO/IEC 11801

■ 0275/0725 FT • UTP 4/23 C(ETL)US CMP VERIFIED (ETL) CAT6 5013896 550 MHZ TIA-568-C.2 WINDY CITY WIRE MADE IN USA



SMARTWIRE  
**GLIDE**  
TECHNOLOGY

## CABLE SPECIFICATIONS

<b>DESCRIPTION</b>	23 AWG CATEGORY 6 NON-SHIELDED TWISTED PAIR (UTP) CABLE, SWEEP TESTED TO 550MHz. THIS CABLE IS PLENUM RATED AND VERIFIED TO CATEGORY 6 ELECTRICALS
<b>CONDUCTOR</b>	23 AWG SOLID BARE COPPER
<b>INSULATION</b>	FEP, PE
<b>COLOR CODE</b>	WHITE-BLUE/BLUE, WHITE-ORANGE/ORANGE, WHITE-GREEN/GREEN, WHITE-BROWN/BROWN
<b>JACKET</b>	FLEX PVC
<b>JACKET COLOR</b>	BLACK JACKET
<b>COMPLETE CABLE PRINT LEGEND</b>	1000/0000 A B C D E 0 1 2 3 4 5 6 7 8 9 UTP 4/23 C(ETL)US CMP VERIFIED (ETL) CAT6 5013896 550 MHZ TIA-568-C.2 WINDY CITY WIRE MADE IN USA
<b>OVERALL DIAMETER</b>	0.215" Nom.
<b>CABLE WEIGHT</b>	28 Lbs/Mft.
<b>NOM. MUTUAL CAPACITANCE</b>	4.6 nF/100m NOMINAL
<b>IMPEDANCE</b>	103 +/- 15 Ohms (1.0 - 250 MHz)
<b>DC RESISTANCE</b>	6.66 ohms/100m MAX/2.5% MAX
<b>TEMPERATURE RATING</b>	0° C to 60° C
<b>VOLTAGE</b>	300V RMS

## INDUSTRY STANDARDS

**FLAME RATING** APPROVED FOR PLENUM USE WITHOUT CONDUIT PER NFPA 262 FLAME TEST

**AGENCY APPROVALS** ETL TYPE CMP, CSA C(ETL) CMP



All specifications referenced are nominal measurements unless otherwise noted.



T 800.379.1191

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# 4 TWISTED PAIR CABLE

PLENUM: ETL TYPE CMP, C(ETL)CMP, ANSI/TIA/EIA-568 CATEGORY 6 (550 MHZ) ISO/IEC 11801

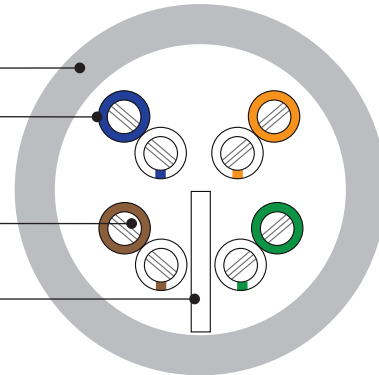
## TWISTED PAIR CABLE

OUTER JACKET – PLENUM: FLEX PVC

PAIR INSULATION – PLENUM: FEP, PE

23 AWG SOLID COPPER

TAPE SEPARATOR



## TWISTED PAIR CABLE

- PAIR 1** BLUE/WHITE WITH CO-EXTRUDED BLUE STRIPE ON WHITE
- PAIR 2** ORANGE/WHITE WITH CO-EXTRUDED ORANGE STRIPE ON WHITE
- PAIR 3** GREEN/WHITE WITH CO-EXTRUDED GREEN STRIPE ON WHITE
- PAIR 4** BROWN/WHITE WITH CO-EXTRUDED BROWN STRIPE ON WHITE

## MECHANICAL SPECIFICATION

<b>NOMINAL JACKET OD</b>	PLENUM: 0.215"
<b>NOMINAL JACKET THICKNESS</b>	PLENUM: 0.019"
<b>JACKET MIN. SPOT THICKNESS</b>	PLENUM: 0.018"
<b>INSTALLATION TEMPERATURE</b>	0° C TO 60° C
<b>OPERATION TEMPERATURE</b>	-20° C TO 60° C

## ELECTRICAL PERFORMANCE

FREQ MHZ.	ATTEN. (dB/100m)	CROSS TLK (dB)	ACR (dB) MIN.	POWER SUM (dB)			ELFEXT (dB) MIN	RETURN LOSS (dB) MIN
				NEXT MIN.	ELFEXT MIN.	ACR MIN.		
1.0	2.0	74.3	72.3	72.3	64.8	70.3	67.8	20.0
4.0	3.8	65.3	61.5	63.3	52.8	59.5	55.8	23.0
8.0	5.3	60.8	55.4	58.8	46.7	53.4	49.7	24.5
10.0	6.0	59.3	53.3	57.3	44.8	51.3	47.8	25.0
16.0	7.6	56.2	48.7	54.2	40.7	46.7	43.7	25.0
20.0	8.5	54.8	46.3	52.8	38.8	44.3	41.8	25.0
25.0	9.5	53.3	43.8	51.3	36.8	41.8	39.8	24.3
31.25	10.7	51.9	41.2	49.9	34.9	39.2	37.9	23.6
62.5	15.4	47.4	32.0	45.4	28.9	30.0	31.9	21.5
100.0	19.8	44.3	24.5	42.3	24.8	22.5	27.8	20.1
155.0	25.2	41.4	16.2	39.4	21.0	14.2	24.0	18.8
200.0	29.0	39.8	10.7	37.8	18.8	8.7	21.8	18.0
250.0	32.8	38.3	5.4	36.3	16.8	3.4	19.8	17.3
350.0	39.7	37.1	-3.6	34.1	13.9	-5.6	16.9	NS
400	42.9	36.3	-7.6	33.3	12.7	-9.6	15.8	NS
550	51.4	36.2	-	34.2	10.9	-	14.0	NS

ALL TESTS INCLUDE SWEEPED FREQUENCY MEASUREMENTS. VALUES ABOVE 250 MHZ ARE FOR INFORMATION PURPOSES ONLY.

<b>NOM. MUTUAL CAPACITANCE</b>	4.6 nF/100m NOMINAL
<b>DC RESISTANCE</b>	6.66 Ohms/100m MAX/2.5% MAX
<b>DIELECTRIC BREAKDOWN</b>	2500 VOLTS DC CONDUCTOR TO CONDUCTOR
<b>PROPAGATION DELAY</b>	4.59nSec/Max @ 10MHz
<b>PROPAGATION DELAY SKEW</b>	≤45ns/100m
<b>NOMINAL VELOCITY OF PROPAGATION, NVP</b>	PLENUM 73%

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