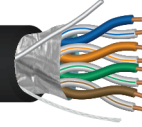


PART NUMBER CAT6ASP-BLK

PLENUM, ETL TYPE CMP, C(ETL), TIA/EIA, NFPA 70, ISO 11801

■ 1000/0000 FT● A B C D E 0 1 2 3 4 5 6 7 8 9 FTP 4/23 C(ETL) US CMP CAT 6A 9700851 WINDY CITY WIRE MADE IN USA



CABLE SPECIFICATIONS

DESCRIPTION ANSI/TIA 568-C.2 CATEGORY 6A, CONSISTING OF 4 TWISTED PAIRS (FTP), 23 AWG, (FTP-FOIL) SHIELDED, PLENUM, ETL TYPE CMP, C(ETL), TIA/EIA, NFPA 70, ISO 11801

CONDUCTOR 23 AWG, SOLID BARE COPPER

INSULATION FEP

ISOLATOR FEP

TAPE (CORE WRAP) PET

SHIELD POLYOLEFIN/ALUMINUM

DRAIN WIRE 24 AWG, SOLID TINNED COPPER

JACKET FRPVC

JACKET COLOR BLACK

COLOR CODE BLUE/WHITE WITH BLUE STRIPE, ORANGE/WHITE WITH ORANGE STRIPE
GREEN/WHITE WITH GREEN STRIPE, BROWN/WHITE WITH BROWN STRIPE

MARKING A B C D E 0 1 2 3 4 5 6 7 8 9 FTP 4/23 C(ETL) US CMP CAT 6A 9700851 WINDY CITY WIRE
MADE IN USA

NOMINAL JACKET O.D. 0.273"

CABLE WEIGHT 38.20 LBS./1000 FT.

TEMPERATURE INSTALLATION TEMPERATURE 0°C TO 60°C
OPERATION TEMPERATURE -20°C TO 60°C

INDUSTRY STANDARDS

AGENCIES APPROVALS ETL TYPE CMP, C(ETL), TIA/EIA, NFPA 70, ISO 11801



All specifications referenced are nominal measurements unless otherwise noted.



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CAT6ASP-BLK: 4 TWISTED PAIR CABLE

PLENUM, ETL TYPE CMP, C(ETL), TIA/EIA, NFPA 70, ISO 11801

PAGE 2

TWISTED PAIR CABLE – 4 PR. SHIELDED 23 AWG

JACKET

INSULATION

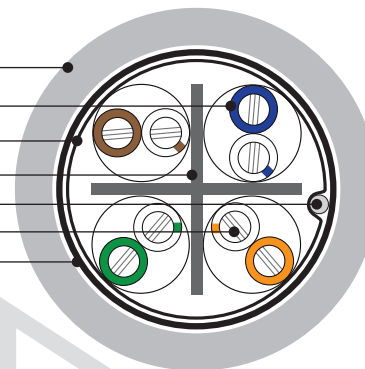
TAPE

ISOLATOR

DRAIN WIRE

CONDUCTOR

TAPE



TWISTED PAIR CABLES

PAIR 1 BLUE/WHITE WITH BLUE STRIPE ON WHITE

PAIR 2 ORANGE/WHITE WITH ORANGE STRIPE ON WHITE

PAIR 3 GREEN/WHITE WITH GREEN STRIPE ON WHITE

PAIR 4 BROWN/WHITE WITH BROWN STRIPE ON WHITE

MECHANICAL SPECIFICATION

INPUT IMPEDANCE

100 OHMS

MUTUAL CAPACITANCE

5.6 nF/100m @KHz

DC RESISTANCE/UNBALANCE

8.00 OHMS/100M MAX/ 4% MAX

DIELECTRIC BREAKDOWN

2500 VOLTS DC CONDUCTOR TO CONDUCTOR

PROPAGATION DELAY SKEW

≤ 45ns/100m

MAXIMUM OPERATING FREQUENCY

500MHz

NOMINAL VELOCITY OF PROPAGATION, NVP

70%

ELECTRICAL PERFORMANCE

FREQ MHZ.	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	STD
1.0	2.1	1.8	74.3	88.1	72.2	86.3	72.3	86.0	70.2	84.3	67.8	87.6	64.8	86.0	20.0	86.0
4.0	3.8	3.4	65.3	79.5	61.5	76.1	63.3	77.2	59.5	73.9	55.8	76.8	52.8	75.3	23.0	75.3
8.0	5.3	4.8	60.8	74.8	55.4	70.0	58.8	72.7	53.4	68.0	49.7	70.5	46.7	69.2	24.5	69.2
10.0	5.9	5.3	59.3	72.8	53.4	67.4	57.3	70.2	51.4	64.9	47.8	69.1	44.8	67.7	25.0	67.7
16.0	7.5	6.8	56.2	69.0	48.8	62.2	54.2	66.9	46.8	60.1	43.7	64.9	40.7	63.6	25.0	63.6
20.0	8.4	7.6	54.8	68.5	46.4	60.9	52.8	66.3	44.4	58.7	41.8	62.8	38.8	61.6	25.0	61.6
25.0	9.4	8.5	53.3	66.8	44.0	58.3	51.3	64.4	42.0	55.9	39.8	60.8	36.8	59.5	24.3	59.5
31.25	10.5	9.6	51.9	64.7	41.4	55.1	49.9	62.4	39.4	52.8	37.9	59.0	34.9	57.7	23.6	57.7
62.5	15.0	13.6	47.4	60.0	32.4	46.4	45.4	57.8	30.4	44.2	31.9	53.6	28.9	51.8	21.5	51.8
100.0	19.1	17.3	44.3	56.3	25.2	38.9	42.3	54.3	23.2	36.9	27.8	51.6	24.8	49.8	20.1	49.8
155.0	24.1	21.7	41.4	53.2	17.4	31.5	39.4	51.2	15.4	29.5	24.0	47.0	21.0	45.3	18.8	45.3
200.0	27.6	24.8	39.8	50.7	12.2	25.9	37.8	48.9	10.2	24.0	21.8	44.6	18.8	42.4	18.0	42.4
250.0	31.1	27.9	38.3	50.4	7.3	22.5	36.3	48.3	5.3	20.3	19.8	41.9	16.8	40.1	17.3	40.1
300.0	34.3	30.7	37.1	48.0	2.9	17.3	35.1	46.1	0.9	15.4	18.3	41.4	15.3	39.4	16.8	39.4
350.0	37.2	33.84	36.1	46.3	-1.1	12.9	34.1	44.5	-3.1	11.2	16.9	39.4	13.9	37.4	16.3	37.4
400.0	40.1	35.9	35.3	44.9	-4.8	9.1	33.3	42.8	-6.8	6.9	15.8	38.3	12.8	36.3	15.9	36.3
450	42.7	38.2	35.5	43.6	-7.2	5.3	33.5	41.6	-10.2	3.4	17.7	36.9	15.7	34.8	15.5	34.8
500.0	45.3	40.96	33.8	41.3	-11.4	0.7	31.8	39.9	-13.4	-0.7	13.8	36.3	10.8	34.0	15.2	34.0
550	-	42.8	-	39.6	-	-3.2	-	37.8	-	-5.0	-	33.3	-	31.0	-	31.0
600	-	45.1	-	38.5	-	-6.5	-	36.6	-	-8.4	-	33.2	-	30.9	-	30.9
650	-	46.9	-	34.6	-	-	-	33.4	-	-	-	31.6	-	29.3	-	29.3

*FREQUENCIES BEYOND TIA AND ISO REQUIREMENTS ARE FOR INFORMATION ONLY. †DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEEP FREQUENCIES GOVERN LIMITS.
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