



Technical Specifications

Product Line: 24-4P-P-L6A

Description

4 pair 23 AWG solid, twisted, and unshielded cable
NEC type CMP and CEC type CMP FT6. Third party verified to ANSI/TIA-568C Category 6A performance. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC article(s) 725, 800, and 760.

Conductor

23 AWG
Solid annealed bare copper conductors
Diameter: 0.0226" | 0.574mm

Electrical

DC resistance: $\leq 23.2 \Omega / 1000'$ | $7.61 \Omega/KM$
DCR Unbalance: $\leq 4.0\%$
Capacitance: 18.3 pF/FT | 60.0 pF/M
Impedance: $100 \pm 15 \Omega$
Propagation Delay (Skew): 35ns/100m MAX
Velocity of Propagation: 66%
Voltage rating: 300V
Pair to ground capacitance Unbalance: $\leq 330 \text{ pF/100M}$
Maximum current: 1.4A@25°C

Insulation

Fluorinated ethylene propylene
Wall thickness: 0.012" | 0.29mm
Diameter: 0.045" | 1.14mm

Regulatory

ANSI/TIA-568-C Category 6A
NEC: CMP 75°C
CEC: CMP FT6 60°C
EU RoHS III 2015/863/EU Compliant
REACH (EC) No 1907/2006 Compliant

Color Code

Pair 1: Orange, White/orange stripe
Pair 2: Blue, White/blue stripe
Pair 3: Green, White/green stripe
Pair 4: Brown, White/brown stripe

Packages

Reel: 1000' | 305M
Weight: 42.4 Lbs/1000' | 64 Kg/KM

Assembly

Pairs twisted in varying lay lengths
Bisector Tape separator

Installation

Pull Tension: 25 Lbs | 111 N
Bend radius: 3.00" | 77mm unloaded
Bend radius: 6.00" | 154mm loaded
Plenum cable should be conditioned at room temperature for 24 hours prior to installation and never installed below 32°F | 0°C ambient temperature

Construct

N/A

Applications

Plenum LAN systems 10/100/1000BaseT and 10GBaseT
Plenum Phone, Voice, Video over IP and security video
Plenum BALUN support and media infrastructure
Plenum Infrared, audio

Shield

N/A

Performance

LAN: 300 feet
Passive Baluns up to 2500 feet

Jacket

Plenum rated polyvinyl chloride
Zigzag jacket design for 6 around 1 performance
Colors: White, Blue, Black
Wall thickness: 0.051" | 1.30mm
Diameter: 0.300" | 7.62mm

Final Outside Diameter (inches)

0.300

Specification Revision Date:

March 18, 2019



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Cat6A Performance Data:

FREQ (MHz)	Insertion Loss (dB/100m)		NEXT (dB)		ACR (dB)		PSNEXT (dB/100m)		PSACR (dB/100m)		ACRF (dB/100m)		PSACRF (dB/100m)		RL (dB)		ELTCTL (dB)
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std
1	2.1	1.8	74.3	91.0	72.2	89.2	72.3	89.0	70.2	87.3	67.8	84.5	64.8	82.5	20.0	33.0	35.0
4	3.8	3.5	65.3	83.1	61.5	79.6	63.3	81.0	59.5	77.5	55.8	72.6	52.8	70.5	23.0	34.6	23.0
8	5.3	5.0	60.8	79.0	55.5	74.0	58.8	76.9	53.4	71.8	49.7	66.6	46.7	64.4	24.5	37.3	16.9
10	5.9	5.6	59.3	76.6	53.4	71.0	57.3	74.7	51.4	69.1	47.8	64.7	44.8	62.5	25.0	38.4	15.0
16	7.5	7.1	56.2	73.6	48.7	66.5	54.2	71.5	46.8	64.3	43.7	60.6	40.7	58.2	25.0	39.6	10.9
20	8.4	8.0	54.8	73.0	46.4	65.0	52.8	71.0	44.4	63.0	41.8	58.6	38.8	56.2	25.0	38.9	9.0
25	9.4	9.0	53.3	70.6	43.9	61.6	51.3	68.8	42.0	59.8	39.8	56.5	36.8	54.2	24.3	38.7	7.0
31	10.5	10.1	51.9	68.7	41.4	58.6	49.9	66.9	39.4	56.8	37.9	54.4	34.9	52.1	23.6	39.3	
63	15.0	14.4	47.4	64.6	32.4	50.2	45.4	62.7	30.4	48.3	31.9	48.5	28.9	46.0	21.5	36.3	
100	19.1	18.4	44.3	60.2	25.2	41.8	42.3	58.7	23.2	40.4	27.8	44.5	24.8	42.2	20.1	35.8	
155	24.1	23.2	41.4	60.8	17.3	37.6	39.4	58.8	15.4	35.6	24.0	41.0	21.0	38.7	18.8	33.1	
200	27.6	26.5	39.6	56.8	12.2	30.3	37.8	55.0	10.2	28.5	21.8	38.5	18.8	36.3	18.0	33.0	
250	31.1	29.8	38.3	54.8	7.2	25.0	36.3	52.8	5.3	23.0	19.8	36.5	16.8	34.2	17.3	32.6	
300	34.3	32.9	37.1	53.4	2.8	20.5	35.1	51.4	0.9	18.5	18.3	35.0	15.3	32.5	16.8	32.5	
350	37.2	35.7	36.1	52.1	-1.1	16.4	34.1	50.1	-3.1	14.4	16.9	34.0	13.9	31.4	16.3	33.2	
400	40.1	38.2	35.3	50.4	-4.8	12.2	33.3	48.3	-6.8	10.1	15.8	32.0	12.8	30.0	15.9	34.2	
500	45.3	43.1	33.8	47.3	-11.5	4.2	31.8	45.5	-13.4	2.4	13.8	29.9	10.8	27.8	15.2	34.6	
650		49.8		43.1		-6.7		41.3		-8.4		27.4		25.1		27.2	

