

Technical Specifications**Product Line: 24-4P-P-L6ASH****Description**

4 pair 23 AWG solid, twisted, and shielded 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 articles 725 and 800.

Conductor

23 AWG

Solid annealed bare copper conductors

Diameter: 0.0226" | 0.574mm

Electrical

DC resistance: $\leq 28.6 \Omega / 1000'$ | $93.8 \Omega/KM$

DCR Unbalance: $\leq 3.0\%$

Capacitance: 17.0 pF/FT | 56.0 pF/M

Impedance: $100 \pm 15 \Omega$

Propagation Delay (Skew): 35ns/100m MAX

Velocity of Propagation: 78%

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 2002/95/EC Compliant

Color Code

Pair 1: Orange, White/Orange

Pair 2: Blue, White/Blue

Pair 3: Green, White/Green

Pair 3: Green, White/Green

Note: Striping will be light due to FEP compound

Packages

Reel: 1000' | 305M

Weight: 45 Lbs/1000' | 67 Kg/KM

Assembly

Pairs twisted in varying lay lengths

Each pair in a fluoropolymer separator interstice

Installation

Pull Tension: 32 Lbs | 142 N

Bend radius: 2.90" | 74mm unloaded

Bend radius: 5.80" | 148mm 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

100% polyester tape binder

Applications

Plenum LAN systems 10/100/1000BaseT and 10GBaseT

Plenum Phone, Voice, Video over IP and security video

BALUN support and media infrastructure

Infrared, audio

Shield

100% aluminum/poly tape with foil in

24 AWG solid tinned copper drain wire

Performance

LAN: 300 feet

Passive Baluns up to 2500 feet

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Jacket

Plenum rated polyvinyl chloride

Colors: Blue, White

Wall thickness: 0.023" | 0.58mm

Diameter: 0.290" | 7.37mm

Final Outside Diameter (inches)

0.290

Specification Revision Date:

July 29, 2013

Category 6A Performance Chart

FREQ (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACR (dB/100m)	PSACR (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB)	TCL (dB/100m)	ELTCTL (dB/100m)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Std	Std
1.0	2.1	74.3	72.3	72.2	70.2	67.8	64.8	20.0	40.0	35.0
4.0	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0	40.0	23.0
8.0	5.3	60.8	58.8	55.5	53.5	49.7	46.7	24.5	40.0	16.9
10.0	5.9	59.3	57.3	53.4	51.4	47.8	44.8	25.0	40.0	15.0
16.0	7.5	56.2	54.2	48.7	46.7	43.7	40.7	25.0	38.0	10.9
20.0	8.4	54.8	52.8	46.4	44.4	41.8	38.8	25.0	37.0	9.0
25.0	9.4	53.3	51.3	43.9	41.9	39.8	36.8	24.3	36.0	7.0
31.25	10.5	51.9	49.9	41.4	39.4	37.9	34.9	23.6	35.1	
62.5	15.0	47.4	45.4	32.4	30.4	31.9	28.8	21.5	32.0	
100.0	19.1	44.3	42.3	25.2	23.2	27.8	24.8	20.1	20.0	
200.0	27.6	39.8	37.8	12.2	10.2	21.8	18.8	18.0	27.0	
300.0	34.3	37.1	35.1	2.8	0.8	18.3	15.3	16.8	25.2	
400.0	40.1	35.3	33.3	-4.8	-6.8	15.8	12.8	15.9	24.0	
500.0	45.3	33.8	31.8	-11.5	-13.5	13.8	10.8	15.2	23.0	