

## Technical Specifications

### Product Line: 24-4P-L6ASH

#### Description

4 pair 23 AWG solid, twisted, and shielded cable NEC type CMR and CEC type CMR FT4. 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:  $\leq 20.3 \Omega / 1000'$  |  $66.6 \Omega/\text{KM}$   
DCR Unbalance:  $\leq 5\%$   
Capacitance: 17.0 pF/FT | 56.0 pF/M  
Impedance:  $100 \pm 15 \Omega$   
Propagation Delay (Skew): 45ns/100m MAX  
Velocity of Propagation: 68%  
Voltage rating: 300V  
Pair to ground capacitance Unbalance:  $\leq 330 \text{ pF}/100\text{M}$   
Maximum current: 1.4A@25°C

#### Insulation

Polyolefin  
Wall thickness: 0.009" | 0.24mm  
Diameter: 0.042" | 1.06mm

#### Regulatory

ANSI/TIA-568-C Category 6A  
NEC: CMR 75°C  
CEC: CMG FT4 60°C  
EU RoHS 2002/95/EC 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: 44 Lbs/1000' | 66 Kg/KM

#### Assembly

Pairs twisted in varying lay lengths  
Each pair in a polyethylene X separator interstice

#### Installation

Pull Tension: 25 Lbs | 111 N  
Bend radius: 2.96" | 76mm unloaded  
Bend radius: 5.92" | 152mm loaded

#### Construct

100% Polyester tape binder  
Ripcord under jacket

#### Applications

Riser LAN systems 10/100/1000BaseT and 10GBaseT  
Riser Phone, Voice, Video over IP and security video  
BALUN support and media infrastructure  
High Speed digital media, HDMI

#### Shield

100% aluminum/polyester tape foil in  
24 AWG solid tinned copper drain

#### Performance

LAN: 300 feet  
Passive Baluns up to 2500 feet

#### Jacket

Polyvinyl chloride  
Colors: White  
Wall thickness: 0.022" | 0.56mm  
Diameter: 0.296" | 7.52mm

#### Final Outside Diameter (inches)

0.296

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Specification Revision Date:

August 1, 2011

#### Category 6A Performance Chart

FREQ (MHz)	Attenuation (dB/100m)		NEXT (dB)		PSNEXT (dB)		ACRF (dB/100m)		PSACRF (dB/100m)		PSANEXT (dB/100m)		PSAACRF (dB/100m)		RL (dB)	
	Max.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical
1.0	2.1	1.6	74.3	104.6	72.3	88.3	67.8	100.8	64.8	93.8	67.0	90.0	67.0	88.0	20.0	35.4
4.0	3.8	3.2	65.3	93.8	63.3	80.0	55.8	95.6	52.8	88.4	67.0	90.8	66.2	87.3	23.0	37.2
8.0	5.3	4.8	60.8	91.3	58.8	75.2	49.7	89.4	46.7	81.8	67.0	92.8	60.1	87.0	24.5	42.3
10.0	5.9	5.3	59.3	95.6	57.3	74.1	47.8	87.4	44.8	77.7	67.0	92.4	58.2	87.1	25.0	36.9
16.0	7.5	6.7	56.2	79.9	54.2	70.9	43.7	80.8	40.7	71.3	67.0	91.9	54.1	84.7	25.0	40.5
20.0	8.4	7.7	54.8	82.1	52.8	69.1	41.8	77.9	38.8	69.6	67.0	85.3	52.2	79.3	25.0	39.9
25.0	9.4	8.7	53.3	85.9	51.3	67.7	39.8	76.6	36.8	67.4	67.0	86.5	50.2	77.8	24.3	38.2
31.25	10.5	9.6	51.9	75.3	49.9	65.4	37.9	74.6	34.9	65.8	67.0	86.2	48.3	76.9	23.6	39.5
62.5	15.0	13.8	47.4	68.6	45.4	62.7	31.9	64.0	28.8	58.4	65.6	85.6	42.3	72.3	21.5	31.3
100.0	19.1	17.6	44.3	66.5	42.3	61.4	27.8	60.3	24.8	53.7	62.5	86.6	38.2	68.9	20.1	31.2
200.0	27.6	25.2	39.8	63.3	37.8	56.5	21.8	57.5	18.8	50.8	58.0	83.6	32.2	60.5	18.0	30.2
250.0	31.1	28.4	38.3	59.5	36.3	53.2	19.8	50.5	16.8	44.8	56.5	83.9	30.2	56.9	17.3	26.2
300.0	34.3	31.1	37.1	59.2	35.1	51.6	18.3	49.8	15.3	44.2	55.3	81.8	28.7	52.8	16.8	29.5
400.0	40.1	36.3	35.3	57.6	33.3	49.5	15.8	49.7	12.8	42.3	53.5	79.7	26.2	46.8	15.9	26.5
500.0	45.3	40.7	33.8	54.4	31.8	47.6	13.8	43.2	10.8	35.4	52.0	76.7	24.2	38.6	15.2	21.8