



Technical Specifications

Product Line: 24-4P-L6SH

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 6 performance. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

Conductor

23.5 AWG

Solid annealed bare copper conductors

Diameter: 0.0213" | 0.54mm

Electrical

DC resistance: $\leq 28.59 \Omega / 1000'$ | $93.8 \Omega/KM$

DCR Unbalance: $\leq 2.5\%$

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: $\leq 330 \text{ pF/100M}$

Maximum current: 1.4A@25°C

Insulation

High density polyethylene

Wall thickness: 0.008" | 0.20mm

Diameter: 0.039" | 0.99mm

Regulatory

ANSI/TIA-568-C Category 6

NEC: CMR 60°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 with co-extruded like striped conductor

Each pair in a polyethylene X separator interstice

Installation

Pull Tension: 25 Lbs | 111 N

Bend radius: 2.70" | 69mm unloaded

Bend radius: 5.40" | 138mm loaded

Construct

100% Polyester tape binder

Applications

Riser LAN systems 10/100/1000BaseT

Riser Phone, Voice, Video over IP and security video

BALUN support and media infrastructure

Infrared, audio

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: Blue, White, Yellow, Red, Violet, Black

Wall thickness: 0.020" | 0.51mm

Diameter: 0.270" | 6.86mm

Final Outside Diameter (inches)

0.270





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Specification Revision Date:

November 19, 2008

Category 6 Performance Chart

FREQ (MHz)	Insertion Loss (dB/100m)		NEXT (dB)		PSNEXT (dB)		ACR (dB/100m)		PSACR (dB/100m)		ELFEXT (dB/100m)		PSELFEXT (dB/100m)		RL (dB)	
	Max.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical
1.0	2.0	1.5	74.3	94.0	72.3	88.3	72.3	92.5	70.3	86.8	67.8	89.8	64.8	82.5	20.0	35.0
4.0	3.8	3.2	65.3	86.2	63.3	80.0	61.5	83.0	59.5	76.8	55.8	78.3	52.8	70.3	23.0	35.7
8.0	5.3	4.6	60.8	81.9	58.8	75.2	55.5	77.3	53.5	70.6	49.7	71.8	46.7	64.6	24.5	38.7
10.0	6.0	5.2	59.3	80.9	57.3	74.1	53.3	75.7	51.3	68.9	47.8	69.5	44.8	62.4	25.0	37.6
16.0	7.6	6.7	56.2	76.7	54.2	70.9	48.6	70.0	46.6	64.2	43.7	65.5	40.7	58.6	25.0	41.9
20.0	8.5	7.5	54.8	74.5	52.8	69.1	46.3	67.0	44.3	61.6	41.8	64.2	38.8	57.0	25.0	38.4
25.0	9.5	8.5	53.3	73.6	51.3	67.7	43.8	65.1	41.8	59.2	39.8	62.2	36.8	55.0	24.3	39.1
31.25	10.7	9.5	51.9	71.5	49.9	65.4	41.2	62.0	39.2	55.9	37.9	59.9	34.9	52.6	23.6	38.5
62.5	15.4	13.8	47.4	70.2	45.4	62.7	32.0	56.4	30.0	48.9	31.9	53.3	28.9	45.6	21.5	35.9
100.0	19.8	17.8	44.3	66.9	42.3	61.4	24.5	49.1	22.5	43.6	27.8	49.2	24.8	40.6	20.1	31.9
200.0	29.0	26.1	39.8	62.4	37.8	56.5	10.8	36.3	8.8	30.4	21.8	42.2	18.8	33.8	18.0	28.4
250.0	32.8	29.3	38.3	60.1	36.3	53.2	5.5	30.8	3.5	23.9	19.8	39.7	16.8	31.7	17.3	26.5

