



## Technical Specifications

**Product Line: 24-4P-L6-EN-DB**

### Description

4 pair 23 AWG solid, twisted, and unshielded cable

Sunlight Resistant and Suitable for Direct Burial. 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 AWG

Solid annealed bare copper conductors

Diameter: 0.023" | 0.58mm

### Electrical

DC resistance:  $\leq 20.3 \Omega / 1000'$  |  $66.6 \Omega/\text{KM}$

DCR Unbalance:  $\leq 2.5\%$

Capacitance:  $17.0 \text{ pF/FT}$  |  $56.0 \text{ pF/M}$

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

Suitable for direct burial

Sunlight resistant

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: 32 Lbs/1000' | 48 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: 2.50" | 64mm unloaded

Bend radius: 5.00" | 128mm loaded

### Construct

Interstices flooded with water repellent silicone gel compound

### Applications

Outside LAN systems 10/100/1000BaseT

Outside Phone, Voice, Video over IP and security video

BALUN support and media infrastructure

Infrared, audio

### Shield

N/A

### Performance

LAN: 300 feet

Passive Baluns up to 2500 feet

### Jacket

Polyethylene

Colors: Black

Wall thickness: 0.020" | 0.51mm

Diameter: 0.250" | 6.35mm

### Final Outside Diameter (inches)

0.250





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Specification Revision Date:

July 14, 2009

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.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
1.0	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4.0	3.8	65.3	63.3	61.5	59.5	55.7	52.7	23.0
8.0	5.3	60.8	58.8	55.5	53.5	49.7	46.7	24.5
10.0	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16.0	7.6	56.3	54.3	48.7	46.7	43.7	40.7	25.0
20.0	8.5	54.8	52.8	46.3	44.3	41.7	38.7	25.0
25.0	9.5	53.3	45.3	43.8	35.8	39.8	36.8	24.3
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	31.8	28.8	21.5
100.0	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
155.0	25.2	41.5	39.5	16.3	14.3	23.9	20.9	18.8
200.0	29.2	39.8	37.8	10.6	8.6	21.7	18.7	18.0
250.0	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3

