



Technical Specifications

Product Line: 24-4P-L5-EN-DB

Description

4 pair 24 AWG solid, twisted, and unshielded cable

Sunlight Resistant and Suitable for Direct Burial. Third party verified to ANSI/TIA-568C Category 5e performance. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

Conductor

24 AWG

Solid annealed bare copper conductors

Diameter: 0.020" | 0.51mm

Electrical

DC resistance: $\leq 28.6 \Omega / 1000'$ | $93.81 \Omega/KM$

DCR Unbalance: $\leq 5\%$

Capacitance: 14.0 pF/FT | 45.9 pF/M

Impedance: $100 \pm 15 \Omega$

Propagation Delay (Skew): $45\text{ns}/100\text{m MAX}$

Velocity of Propagation: 68%

Voltage rating: 300V

Pair to ground capacitance Unbalance: $\leq 330 \text{ pF}/100\text{M}$

Maximum current: $1.4\text{A}@25^\circ\text{C}$

Insulation

High density polyethylene

Wall thickness: $0.008"$ | 0.20mm

Diameter: $0.036"$ | 0.91mm

Regulatory

ANSI/TIA-568-C Category 5e

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: $30 \text{ Lbs}/1000'$ | $45 \text{ Kg}/\text{KM}$

Assembly

Pairs twisted in varying lay lengths with co-extruded like striped conductor

Installation

Pull Tension: 25 Lbs | 111 N

Bend radius: $2.40"$ | 61mm unloaded

Bend radius: $4.80"$ | 122mm 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: $0.030"$ | 0.76mm

Diameter: $0.240"$ | 6.10mm

Final Outside Diameter (inches)

0.240





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Specification Revision Date:

September 27, 2006

Category 5E 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)	
	568 Max	Typical	568 Min	Typical	568 Min	Typical	568 Min	Typical	568 Min	Typical	568 Min	Typical	568 Min	Typical	568 Min	Typical
0.772	1.8	1.6	67.0	81.0	64.0	68.0	65.2	79.4	62.2	66.4	66.0	69.0	63.0	67.0	N/A	N/A
1.0	2.0	1.7	65.3	79.0	62.3	68.3	63.3	77.3	60.3	66.6	63.8	67.8	60.8	65.8	20.0	20.5
4.0	4.1	3.6	56.3	72.0	53.3	59.3	52.2	68.4	49.2	55.7	51.7	55.8	48.7	53.7	23.0	23.5
8.0	5.8	5.2	51.8	68.0	48.8	54.8	46.0	62.8	43.0	49.6	45.7	49.7	42.7	47.7	24.5	25.0
10.0	6.5	5.9	50.3	67.0	47.3	53.3	43.8	61.1	40.8	47.4	43.8	47.8	40.8	45.8	25.0	25.5
16.0	8.2	7.4	47.3	64.0	44.3	50.2	39.1	56.6	36.1	42.8	39.7	43.7	36.7	41.7	25.0	25.5
20.0	9.3	8.4	45.8	63.0	42.8	48.8	36.5	54.6	33.5	40.4	37.7	41.8	34.7	39.7	25.0	25.5
25.0	10.4	9.4	44.3	61.0	41.3	47.3	33.9	51.6	30.9	37.9	35.8	39.8	32.8	37.8	24.3	24.8
31.25	11.7	10.5	42.9	60.0	39.9	45.9	31.2	49.5	28.2	35.4	33.9	37.9	30.9	35.9	23.6	24.1
62.5	17.0	15.3	38.4	56.0	35.4	41.4	21.4	40.7	18.4	26.1	27.8	31.9	24.8	29.8	21.5	22.0
100.0	22.0	19.7	35.3	53.0	32.3	38.3	13.3	33.3	10.3	18.6	23.8	27.8	20.8	25.8	20.1	20.6
155.0		25.0		51.0		35.4		26.0		10.4		24.0		21.9		19.3
200.0		28.8		48.0		33.8		19.2		5.0		21.8		19.7		18.5
250.0		32.4		47.0		32.3		14.6		-0.1		19.8		17.8		17.8
300.0		35.9		46.0		31.1		10.1		-4.8		18.3		16.2		17.3
350.0		39.3		43.0		30.1		3.7		-9.2		16.9		14.9		16.8

