



Technical Specifications

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

Description

4 pair 24 AWG solid, twisted, and unshielded cable

NEC type CMR and CEC type CMR FT4. 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: 0.0205" | 0.51mm

Electrical

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

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

Maximum current: 1.4A@25°C

Insulation

High density polyethylene

Wall thickness: 0.0075" | 0.19mm

Diameter: 0.035" | 0.89mm

Regulatory

ANSI/TIA-568-C Category 5e

NEC: CMR 75°C

CEC: CMR 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

Nested Box: 1000' | 305M

Weight: 26 Lbs/1000' | 39 Kg/KM

Assembly

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

4 twisted pairs cabled on a common axis

Installation

Pull Tension: 25 Lbs | 111 N

Bend radius: 2.19" | 56mm unloaded

Bend radius: 4.38" | 112mm loaded

Construct

Ripcord under jacket

Applications

Riser LAN systems 10/100/1000BaseT

Riser 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

Polyvinyl chloride

Colors: Blue, White, Yellow, Green, Gray, Orange, Pink, Red, Violet, Black

Wall thickness: 0.025" | 0.635mm

Diameter: 0.219" | 5.57mm

Final Outside Diameter (inches)

0.219





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Specification Revision Date:

April 15, 2009

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)	
	Max.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical	Min.	Typical
1.0	2.0	1.7	65.3	83.1	62.3	76.8	63.3	81.4	60.3	75.1	63.8	84.8	60.8	76.5	20.0	35.7
4.0	4.1	3.6	56.3	74.8	53.3	67.8	52.2	71.2	49.2	64.2	51.7	74.2	48.7	65.3	23.1	39.1
8.0	5.8	5.1	51.8	70.0	48.8	63.4	46.0	64.9	43.0	58.3	45.7	68.1	42.7	59.2	24.5	36.3
10.0	6.5	5.7	50.3	68.6	47.3	61.7	43.8	62.9	40.8	56.0	43.8	66.5	40.8	57.4	25.0	35.1
16.0	8.2	7.3	47.3	63.4	44.3	57.4	39.1	56.1	36.1	50.1	39.7	61.4	36.7	53.2	25.0	36.0
20.0	9.3	8.3	45.8	63.7	42.8	57.6	36.5	55.4	33.5	49.3	37.7	59.7	34.7	51.3	25.0	37.5
25.0	10.4	9.3	44.3	61.0	41.3	54.3	33.9	51.7	30.9	45.0	35.8	56.8	32.8	48.9	24.3	37.7
31.25	11.7	11.1	42.9	60.7	39.9	53.7	31.2	49.6	28.2	42.6	33.9	53.3	30.9	45.6	23.6	34.8
62.5	17.0	15.0	38.4	55.4	35.4	49.3	21.4	40.4	18.4	34.3	27.8	47.9	24.8	40.2	21.5	34.1
100.0	22.0	19.3	35.3	51.9	32.3	45.2	13.3	32.6	10.3	25.9	23.8	43.3	20.8	35.7	20.1	32.3
155.0		23.7		50.0		43.0		26.3		19.3		40.0		31.0		
200.0		27.5		47.0		40.0		19.5		12.5		37.0		29.0		
250.0		31.1		44.0		37.0		12.9		5.9		35.0		27.0		
350.0		37.4		41.0		34.0		3.6		-3.4		31.0		24.0		

