



Technical Specifications

Product Line: 24-8P-L5E-SIAM

Description

Dual 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: 0.020" | 0.51mm

Electrical

DC resistance: $\leq 28.60 \Omega / 1000'$ | $93.8 \Omega/\text{KM}$
DCR Unbalance: $\leq 5.0\%$
Capacitance: 14.0 pF/FT | 45.9 pF/M
Impedance: $100 \pm 15 \Omega$
Propagation Delay (Skew): 45ns/100m MAX
Velocity of Propagation: 70%
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: 0.036" | 0.91mm

Regulatory

ANSI/TIA-568-C Category 5e
NEC: CMR 75°C
CEC: CMG FT4 60°C
EU RoHS 2002/95/EC Compliant

Color Code

Note: Both cables use same 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: 54 Lbs/1000' | 81 Kg/KM

Assembly

Pairs twisted in varying lay lengths with co-extruded like striped conductor
4 pairs cabled together

Installation

Pull Tension: 50 Lbs | 222 N
Bend radius: 4.10" | 104mm unloaded
Bend radius: 8.20" | 208mm loaded

Construct

Ripcord under the jackets
2 jacketed cables in parallel joined by a web

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





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Jacket

Flame retardant polyvinyl chloride

Colors: Blue, Green, Violet

Wall thickness: 0.020" | 0.51mm

Cable diameter: 0.200 x 0.410" | 5.08 x 10.41mm

Specification Revision Date:

Final Outside Diameter (inches)

0.200 x 0.410

February 20, 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)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
0.772	1.8	67.0	64.0	65.2	62.2	66.0	63.0	19.4
1.0	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4.0	4.1	56.3	53.3	52.2	49.2	51.7	48.7	23.0
8.0	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10.0	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16.0	8.2	47.3	44.4	39.1	36.2	39.7	36.7	25.0
20.0	9.3	45.8	42.8	36.5	33.5	37.7	34.7	25.0
25.0	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	36.4	35.4	19.4	18.4	27.8	24.6	21.5
100.0	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1
200.0	32.4	30.8	27.8	-1.6	-4.6	17.8	14.8	18.0
300.0	41.0	28.2	25.2	-12.8	-15.8	14.3	11.3	16.8
350.0	44.9	27.2	24.2	-17.7	-20.7	12.9	9.9	16.3

