

Technical Specifications

Product Line: 24-4P-L6ANS

Description

4 pair 23 AWG solid, twisted, non-conductive shielded cable NEC type CMR and CEC type CMR FT4. Third party verified to ANSI/TIA-568 Category 6A performance. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC article(s) 725, 800, and 760.

Conductor

23 AWG
 Solid annealed bare copper conductors
 Diameter: 0.0226" | 0.574mm

Electrical

DC resistance: $\leq 20.3 \Omega / 1000'$ | 66.6 Ω/KM
 DCR Unbalance: $\leq 4\%$
 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

Polyolefin
 Blue/Green: Wall thickness: 0.011" | 0.29mm
 Diameter: 0.045" | 1.15mm
 Orange/Brown: Wall thickness: 0.010" | 0.27mm
 Diameter: 0.044" | 1.11mm

Regulatory

ANSI/TIA-568-D Category 6A
 NEC: CMR 75°C
 CEC: CMG FT4 60°C
 EU RoHS III 2015/863/EU Compliant
 REACH (EC) No 1907/2006 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: 40 Lbs/1000' | 18 Kg/KM

Assembly

Pairs twisted in varying lay lengths
 Each pair in a polyolefin X separator interstice

Installation

Pull Tension: 25 Lbs | 111 N
 Bend radius: 2.95" | 75mm unloaded
 Bend radius: 5.90" | 150mm loaded

Construct

100% Mylar tape binder
 Ripcord under jacket

Applications

Ground Loop Lift Solution for these technologies
 Riser LAN systems 10/100/1000BaseT and 10GBaseT
 Riser Phone, Voice, Video over IP and security video
 BALUN support and media infrastructure

Shield

100% Mylar/Aluminum/Mylar Tape
 Non-Conductive EMI reject format

Performance

LAN: 300 feet
 Passive Baluns up to 2500 feet

Jacket

Flame rated polyvinyl chloride
 Colors: Blue
 Wall thickness: 0.022" | 0.55mm
 Diameter: 0.295" | 7.50mm

Final Outside Diameter (inches)

0.295

Specification Revision Date:

May 23, 2019

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Cat6A Performance Data:

Frequency (MHz)	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	PropagationDelay	DelaySkew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	2.08	74.30	72.30	72.22	70.22	67.80	64.80	20.00	570.00	45
4	3.80	65.27	63.27	61.47	59.47	55.76	52.76	23.01	552.00	
8	5.31	60.75	58.75	55.44	53.44	49.74	46.74	24.52	546.73	
10	5.93	59.30	57.30	53.37	51.37	47.80	44.80	25.00	545.38	
16	7.49	56.24	54.24	48.75	46.75	43.72	40.72	25.00	543.00	
20	8.38	54.78	52.78	46.40	44.40	41.78	38.78	25.00	542.05	
25	9.38	53.33	51.33	43.95	41.95	39.84	36.84	24.32	541.20	
31.25	10.50	51.88	49.88	41.38	39.38	37.90	34.90	23.64	540.44	
62.5	14.99	47.36	45.36	32.37	30.37	31.88	28.88	21.54	538.55	
100	19.14	44.30	42.30	25.16	23.16	27.80	24.80	20.11	537.60	
150	23.68	41.66	39.66	17.98	15.98	24.28	21.28	18.87	536.94	
200	27.58	39.78	37.78	12.20	10.20	21.78	18.78	18.00	536.55	
250	31.07	38.33	36.33	7.26	5.26	19.84	16.84	17.32	536.28	
300	34.27	37.14	35.14	2.87	0.87	18.26	15.26	16.77	536.08	
350	37.25	36.14	34.14	-1.11	-3.11	16.92	13.92	16.30	535.92	
400	40.05	35.27	33.27	-4.78	-6.78	15.76	12.76	15.89	535.80	
450	42.71	34.50	32.50	-8.21	-10.21	14.74	11.74	15.53	535.70	
500	45.26	33.82	31.82	-11.44	-13.44	13.82	10.82	15.21	535.61	