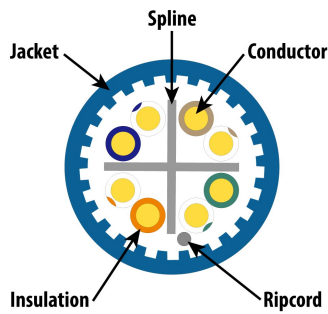


Specifications & Technical Data



Revision: 1.0, Date: 2023-10-06



Product # V-1242

Cat 6A Riser

Category 6A unshielded, featuring solid bare copper conductors w/ spline. Supports 10 Gbit/s up to 328ft, tested to 500MHz. ETL Verified performance. Supports PoE+. Riser (CMR) fire safety rating for installation in walls and risers (between floors) in both residential and commercial buildings. UL Certified.

<https://www.voltive.com/products/voltive-cat-6a-riser>

Standards & Ratings

Ethernet Standard	ANSI/TIA-568.2-D
Supported Speeds	1000BASE-T, 2.5GBASE-T, 5GBASE-T, and 10GBASE-T up to 328 feet
Performance Testing	ETL Verified
Power Over Ethernet (PoE)	IEEE 802.3af/at (PoE & PoE+)
Materials & Construction	UL 444
Fire Rating	Riser (CMR)
Flame Test	UL 1666
Flame Testing	UL Certified
Direct Burial?	No
Sunlight Resistant?	No
Voltage Rating	300V
Temperature Rating	75°C
RoHS?	Yes

Conductors

Material	Oxygen Free Copper
Gauge	23AWG
Stranding	Solid
Count	4 twisted pairs (8 total)
DC Resistance	≤ 8.00 ohms/100m

Spline

Material	Polyethylene (PE)
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Part Numbers

Part #	Old Part #	Color	Length	Packaging	UPC	Weight	L x W x H (in)	Link
V-1242-3		Black	1000ft	Spool	810095240959	39.0 lbs	15.0 x 15.0 x 12.6	View
V-1242-1		Blue	1000ft	Spool	810095240935	39.0 lbs	15.0 x 15.0 x 12.6	View
V-1242-2		White	1000ft	Spool	810095240942	39.0 lbs	15.0 x 15.0 x 12.6	View

Transmission Performance

Insulation

Colors	Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown	
Material	Polyethylene (PE)	
Outer Diameter	Blue Pair	1.03mm ± 0.03mm
	Orange Pair	1.03mm ± 0.03mm
	Green Pair	1.03mm ± 0.03mm
	Brown Pair	1.02mm ± 0.03mm
Minimum Resistance	5000 megaohms/km	
Dielectric Strength	1.5KV AC for 2 seconds	

Jacket

Available Colors	Black, Blue, White
Material	Polyvinyl Chloride (PVC)
Outer Diameter	6.80mm ± 0.30mm
Thickness	0.65mm ± 0.10mm
Ripcord	Cotton
Minimum Bend Radius	4 × diameter (27.2mm)
Maximum Pulling Tension	140 N
Printing	VOLTIVE CAT 6A UTP - V-1242 - 23AWG 4PR - (UL) CMR E520875-XX 75C - ETL VERIFIED TO TIA-568.2-D - MM/YY - XXX-XXX - VOLTIVE.COM - XXX FT USED / XXX FT REMAINING

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Delay Skew	Resistance Unbalance	Mutual Capacitance	Capacitance Unbalance Pair-to-Ground
45.00 ns/100m	≤ 4%	≤ 5.6 nF/100m	≤ 160 pF/100m

Frequency	IL	NEXT	PSNEXT	ACRN	PSACRN	ACRF	PSACRF	RL	Propagation Delay
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	ns/100m
1.00	2.08	74.29	72.29	72.21	70.21	67.79	64.79	20.00	570.00
4.00	3.80	65.26	63.26	61.46	59.46	55.75	52.75	23.01	552.00
8.00	4.70	60.75	58.75	56.05	54.05	49.73	46.73	24.51	546.72
10.00	5.27	59.29	57.29	54.02	52.02	47.79	44.79	25.00	545.38
16.00	6.71	56.23	54.23	49.52	47.52	43.71	40.71	25.00	543.00
20.00	7.52	54.78	52.78	47.26	45.26	41.77	38.77	25.00	542.04
25.00	8.44	53.33	51.33	44.89	42.89	39.84	36.84	24.32	541.20
31.25	9.47	51.87	49.87	42.40	40.40	37.90	34.90	23.64	540.43
62.50	13.54	47.36	45.36	33.82	31.82	31.88	28.88	21.53	538.55
100.00	17.24	44.30	42.29	27.06	25.05	27.79	24.79	20.10	537.60
200.00	24.88	39.78	37.78	14.90	12.90	21.77	18.77	18.00	536.54
250.00	28.03	38.33	36.33	10.30	8.30	19.84	16.84	17.32	536.28
300.00	30.91	37.10	35.10	6.19	4.19	18.30	15.30	16.77	536.08
400.00	36.12	35.27	33.30	-	-	15.80	12.80	15.89	535.80
500.00	40.81	33.80	31.80	-	-	13.80	10.80	15.21	535.61

IL: Insertion Loss; **NEXT:** Near End Cross Talk; **PSNEXT:** Power Sum NEXT; **ACRN:** Attenuation to Crosstalk Ratio, Near End; **PSACRN:** Power Sum ACRN; **ACRF:** Attenuation to Crosstalk Ratio, Far End; **PSACRF:** Power Sum ACRF; **RL:** Return Loss. All values at 20°C.