



Product # V-1232

Cat 6 Riser

Category 6 unshielded, featuring solid bare copper conductors w/ spline. Supports 5 Gbit/s up to 328ft & 10 Gbit/s up to 180ft, tested to 600MHz. 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/V-1232>

Standards & Ratings

Ethernet Standard	ANSI/TIA-568.2-D
Supported Speeds	1000BASE-T, 2.5GBASE-T, and 5GBASE-T up to 328 feet, 10GBASE-T up to 180 feet
Performance Testing	ETL Verified
Power Over Ethernet (PoE)	IEEE 802.3af/at/bt (PoE, PoE+, & 4PPoE/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

Part Numbers

Part #	Old Part #	Color	Length	Packaging	UPC	Weight	L x W x H (in)	Link
V-1232-13	V-1093	Black	100ft	Coilpack	850001725910	2.8 lbs	10.2 x 10.2 x 2.0	View
V-1232-16	V-1094	Black	250ft	Coilpack	850001725927	7.2 lbs	11.8 x 11.8 x 2.8	View
V-1232-3	V-1130	Black	500ft	Box	810095240195	15.8 lbs	13.9 x 10.2 x 13.5	View
V-1232-9	V-1063	Black	1000ft	Box	850001725545	32.4 lbs	16.5 x 10.2 x 15.9	View
V-1232-14		Blue	100ft	Coilpack	810095240614	2.8 lbs	10.2 x 10.2 x 2.0	View

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	1.00mm ± 0.03mm
	Green Pair	1.02mm ± 0.03mm
	Brown Pair	0.99mm ± 0.03mm
Minimum Resistance	5000 megaohms/km	
Dielectric Strength	1.5KV AC for 2 seconds	

Spline

Material	Polyethylene (PE)
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Jacket

Available Colors	See part number list below
Material	Polyvinyl Chloride (PVC)
Outer Diameter	6.30mm ± 0.30mm
Thickness	0.55mm ± 0.10mm
Ripcord	Cotton
Minimum Bend Radius	4 × diameter (25.2mm)
Maximum Pulling Tension	140 N
Printing	VOLTIVE CAT 6 UTP - V-1232 - 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

Specifications & Technical Data



Revision: 2.8, Date: 2023-02-10

V-1232-17		Blue	250ft	Coilpack	810095240621	7.2 lbs	11.8 x 11.8 x 2.8	View
V-1232-1	V-1128	Blue	500ft	Box	810095240171	15.8 lbs	13.9 x 10.2 x 13.5	View
V-1232-7	V-1061	Blue	1000ft	Box	850001725774	32.4 lbs	16.5 x 10.2 x 15.9	View
V-1232-4	V-1131	Gray	500ft	Box	810095240201	15.8 lbs	13.9 x 10.2 x 13.5	View
V-1232-10	V-1101	Gray	1000ft	Box	850001725989	32.4 lbs	16.5 x 10.2 x 15.9	View
V-1232-5	V-1132	Green	500ft	Box	810095240218	15.8 lbs	13.9 x 10.2 x 13.5	View
V-1232-11	V-1102	Green	1000ft	Box	850001725996	32.4 lbs	16.5 x 10.2 x 15.9	View
V-1232-15	V-1088	White	100ft	Coilpack	850001725941	2.8 lbs	10.2 x 10.2 x 2.0	View
V-1232-18	V-1092	White	250ft	Coilpack	850001725934	7.2 lbs	11.8 x 11.8 x 2.8	View
V-1232-2	V-1129	White	500ft	Box	810095240188	15.8 lbs	13.9 x 10.2 x 13.5	View
V-1232-8	V-1062	White	1000ft	Box	850001725538	32.4 lbs	16.5 x 10.2 x 15.9	View
V-1232-6	V-1133	Yellow	500ft	Box	810095240225	15.8 lbs	13.9 x 10.2 x 13.5	View
V-1232-12	V-1103	Yellow	1000ft	Box	810095240003	32.4 lbs	16.5 x 10.2 x 15.9	View

Transmission Performance

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	2.04	74.29	72.29	72.25	70.25	67.79	64.79	20.00	570.00
4.00	3.78	65.26	63.26	61.48	59.48	55.75	52.75	23.01	552.00
8.00	5.32	60.75	58.75	55.43	53.43	49.73	46.73	24.51	546.72
10.00	5.95	59.29	57.29	53.34	51.34	47.79	44.79	25.00	545.38
16.00	7.55	56.23	54.23	48.68	46.68	43.71	40.71	25.00	543.00
20.00	8.47	54.78	52.78	46.31	44.31	41.77	38.77	25.00	542.04
25.00	9.51	53.33	51.33	43.82	41.82	39.84	36.84	24.32	541.20
31.25	10.67	51.87	49.87	41.20	39.20	37.90	34.90	23.64	540.43
50.00	13.66	48.81	46.81	35.15	33.15	33.82	30.82	22.21	539.09
62.50	15.38	47.36	45.36	31.98	29.98	31.88	28.88	21.53	538.55
100.00	19.80	44.30	42.29	24.50	22.49	27.79	24.79	20.10	537.60
125.00	22.35	42.84	40.84	20.49	18.49	25.86	22.86	19.42	537.21
200.00	28.98	39.78	37.78	10.80	8.80	21.77	18.77	18.00	536.54
250.00	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.27
450.00	46.00	34.50	32.50	-	-	14.70	11.70	15.50	535.70
550.00	51.80	33.20	31.20	-	-	13.00	10.00	14.90	535.50

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.