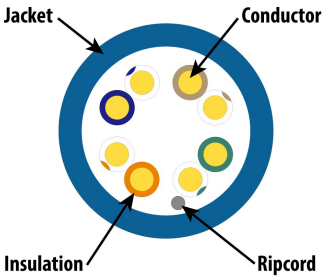
Specifications & Technical Data

Revision: **2.8**, Date: **2023-02-10**



Product # V-1226

Cat 5e Riser

Category 5e unshielded, featuring solid bare copper conductors. Supports 2.5 Gbit/s up to 328ft, tested to 350MHz. 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-1226

Standards & Ratings

Ethernet Standard	ANSI/TIA-568.2-D
Supported Speeds	1000BASE-T and 2.5GBASE-T up to 328 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	24AWG
Stranding	Solid
Count	4 twisted pairs (8 total)
DC Resistance	≤ 10.00 ohms/100m

Insulation

Colors	Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown	
Material	Polyethylene (PE)	
Outer Diameter	Blue Pair	0.87mm ± 0.03mm
	Orange Pair	0.88mm ± 0.03mm
	Green Pair	0.87mm ± 0.03mm
	Brown Pair	0.87mm ± 0.03mm
Minimum Resistance	5000 megaohms/km	
Dielectric Strength	1.5KV AC for 2 seconds	

Jacket

Available Colors	*See part number list below*
Material	Polyvinyl Chloride (PVC)
Outer Diameter	5.10mm ± 0.30mm
Thickness	0.50mm ± 0.10mm
Ripcord	Cotton
Minimum Bend Radius	4 × diameter (20.4mm)
Maximum Pulling Tension	110 N
Printing	VOLTIVE CAT 5E UTP - V-1226 - 24AWG 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

Part Numbers

Part #	Old Part #	Color	Length	Packaging	UPC	Weight	L x W x H (in)	Link
V-1226-13		Black	100ft	Coilpack	810095240584	2.0 lbs	9.5 x 9.5 x 2.0	View
V-1226-3	V-1109	Black	500ft	Box	810095240102	12.3 lbs	11.6 x 9.9 x 11.8	View
V-1226-9	V-1056	Black	1000ft	Box	850001725484	21.8 lbs	13.9 x 10.2 x 13.5	View
V-1226-14		Blue	100ft	Coilpack	810095240591	1.9 lbs	9.5 x 9.5 x 2.0	View
V-1226-1	V-1107	Blue	500ft	Box	810095240089	12.3 lbs	11.6 x 9.9 x 11.8	View
V-1226-7	V-1054	Blue	1000ft	Box	850001725781	21.8 lbs	13.9 x 10.2 x 13.5	View
V-1226-4	V-1110	Gray	500ft	Box	810095240119	12.3 lbs	11.6 x 9.9 x 11.8	View
V-1226-10	V-1113	Gray	1000ft	Box	810095240041	21.8 lbs	13.9 x 10.2 x 13.5	View

V-1226-5	V-1111	Green	500ft	Box	810095240126	12.3 lbs	11.6 x 9.9 x 11.8	View
V-1226-11	V-1114	Green	1000ft	Box	810095240065	21.8 lbs	13.9 x 10.2 x 13.5	View
V-1226-15		White	100ft	Coilpack	810095240607	1.9 lbs	9.5 x 9.5 x 2.0	View
V-1226-2	V-1108	White	500ft	Box	810095240096	12.3 lbs	11.6 x 9.9 x 11.8	View
V-1226-8	V-1055	White	1000ft	Box	850001725477	21.8 lbs	13.9 x 10.2 x 13.5	View
V-1226-6	V-1112	Yellow	500ft	Box	810095240133	12.3 lbs	11.6 x 9.9 x 11.8	View
V-1226-12	V-1115	Yellow	1000ft	Box	810095240072	21.8 lbs	13.9 x 10.2 x 13.5	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	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00
4.00	4.05	56.26	53.26	52.21	49.21	51.75	48.75	23.01	552.00
8.00	5.76	51.75	48.75	45.99	42.99	45.73	42.73	24.51	546.72
10.00	6.46	50.30	47.30	43.84	40.84	43.80	40.79	25.00	545.38
16.00	8.24	47.23	44.23	38.99	35.99	39.71	36.71	25.00	543.00
20.00	9.26	45.78	42.78	36.52	33.52	37.77	34.77	25.00	542.04
25.00	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20
31.25	11.72	42.87	39.87	31.15	28.15	33.90	30.90	23.64	540.43
50.00	15.06	39.81	36.81	24.75	21.75	29.82	26.82	22.21	539.09
62.50	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.53	538.55
100.00	21.97	35.29	32.29	13.32	10.32	23.79	20.79	20.10	537.60
125.00	24.87	33.84	30.84	8.97	5.97	21.86	18.86	19.42	537.21
200.00	32.42	30.78	27.78	–	–	17.77	14.77	18.00	536.54
250.00	36.85	29.33	26.33	–	–	15.84	12.84	17.32	536.27
300.00	40.97	28.14	25.14	–	–	14.25	11.25	16.76	536.07
350.00	44.85	27.13	24.13	–	–	12.91	9.91	16.29	535.92

***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.*