



Product # V-1230

## Cat 5e Direct Burial – Gel

Category 5e unshielded, featuring solid bare copper conductors. Supports 2.5 Gbit/s up to 328ft, tested to 350MHz. ETL Verified performance. Supports PoE+. Direct Burial rated w/ gel for underground installation without conduit. UV rated for direct exposure to sunlight in outdoor applications.

<https://www.voltive.com/products/voltive-cat-5e-direct-burial-gel-filled>

### 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
Direct Burial?	Yes — Gel Filled
Sunlight Resistant?	Yes
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

### Part Numbers

Part #	Old Part #	Color	Length	Packaging	UPC	Weight	L x W x H (in)	Link
V-1230-1	V-1124	Black	500ft	Box	810095240362	14.1 lbs	13.9 x 10.2 x 13.5	<a href="#">View</a>
V-1230-2	V-1060	Black	1000ft	Box	850001725521	25.7 lbs	16.5 x 10.2 x 15.9	<a href="#">View</a>

### Insulation

Colors	Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown	
Material	Polyethylene (PE)	
Outer Diameter	Blue Pair	0.88mm ± 0.03mm
	Orange Pair	0.88mm ± 0.03mm
	Green Pair	0.88mm ± 0.03mm
	Brown Pair	0.89mm ± 0.03mm
Minimum Resistance	5000 megaohms/km	
Dielectric Strength	1.5KV AC for 2 seconds	

### Jacket

Available Colors	Black
Material	Polyethylene (PE)
Outer Diameter	5.60mm ± 0.30mm
Thickness	0.65mm ± 0.10mm
Ripcord	Cotton
Minimum Bend Radius	4 × diameter (22.4mm)
Maximum Pulling Tension	110 N
Printing	VOLTIVE CAT 5E UTP - V-1230 - 24AWG 4PR - DIRECT BURIAL SUNLIGHT RESISTANT 75C - ETL VERIFIED TO TIA-568.2-D - MM/YY - XXX-XXX - VOLTIVE.COM - XXX FT USED / XXX FT REMAINING

# Specifications & Technical Data



Revision: 2.5, Date: 2023-02-10

## 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.