



Product # V-1236

Cat 6 Direct Burial – Gel

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+. 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-6-direct-burial-gel-filled>

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
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	≤ 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-1236-1	V-1142	Black	500ft	Spool	810095240430	20.9 lbs	13.8 x 13.8 x 8.7	View
V-1236-2	V-1067	Black	1000ft	Spool	850001725583	37.5 lbs	15.0 x 15.0 x 12.6	View

Insulation

Colors	Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown	
Material	Polyethylene (PE)	
Outer Diameter	Blue Pair	1.02mm ± 0.03mm
	Orange Pair	1.00mm ± 0.03mm
	Green Pair	1.01mm ± 0.03mm
	Brown Pair	0.98mm ± 0.03mm
Minimum Resistance	5000 megaohms/km	
Dielectric Strength	1.5KV AC for 2 seconds	

Jacket

Available Colors	Black
Material	Polyethylene (PE)
Outer Diameter	6.60mm ± 0.30mm
Thickness	0.70mm ± 0.10mm
Ripcord	Cotton
Minimum Bend Radius	4 × diameter (26.4mm)
Maximum Pulling Tension	140 N
Printing	VOLTIVE CAT 6 UTP - V-1236 - 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: 2.6, 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	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.