



Product # V-1237

Cat 6 Shielded Direct Burial – Gel

Category 6 shielded, featuring solid bare copper conductors w/ spline. Supports 5 Gbit/s up to 328ft & 10 Gbit/s up to 180ft, tested to 400MHz. 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-shielded-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 (PoE & 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	≤ 9.38 ohms/100m

Spline

Material	Polyolefin (PO)
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Shield

Material	Aluminum + Mylar
Orientation	Mylar side facing out

Part Numbers

Part #	Old Part #	Color	Length	Packaging	UPC	Weight	L x W x H (in)	Link
V-1237-1	V-1143	Black	500ft	Spool	810095240447	25.0 lbs	14.2 x 14.2 x 10.6	View
V-1237-2	V-1068	Black	1000ft	Spool	850001725590	52.3 lbs	15.8 x 15.8 x 13.0	View

Insulation

Colors	Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown	
Material	Polyolefin (PO)	
Outer Diameter	Blue Pair	1.01mm ± 0.02mm
	Orange Pair	0.99mm ± 0.02mm
	Green Pair	1.01mm ± 0.02mm
	Brown Pair	0.99mm ± 0.02mm
Minimum Resistance	5000 megaohms/km	
Dielectric Strength	1.5KV AC for 2 seconds	

Inner Jacket

Material	Polyethylene (PE)
Diameter	7.0mm ± 0.2mm
Thickness	0.95mm ± 0.05mm

Outer Jacket

Available Colors	Black
Material	Polyethylene (PE)
Outer Diameter	8.30mm ± 0.20mm
Thickness	0.55mm ± 0.05mm
Minimum Bend Radius	8 × diameter (66.4mm)
Maximum Pulling Tension	110 N
Printing	VOLTIVE CAT 6 FTP - V-1237 - 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	≤ 5%	≤ 5.6 nF/100m	≤ 330 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	2.03	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00
4.00	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00
8.00	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73
10.00	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38
16.00	7.55	56.24	53.24	48.68	46.68	43.72	40.72	25.00	543.00
20.00	8.47	54.78	52.78	46.31	44.31	41.78	38.78	25.00	542.05
25.00	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541.20
31.25	10.67	51.88	49.88	41.20	39.20	37.90	34.90	23.64	540.44
62.50	15.38	47.36	45.36	31.98	29.98	31.88	29.88	21.54	538.55
100.00	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60
150.00	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	536.94
200.00	28.98	39.78	37.78	10.80	8.80	21.78	18.78	18.00	536.55
250.00	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28
300.00	36.43	37.14	35.14	0.72	–	18.26	15.26	16.77	536.08
350.00	39.79	36.14	34.14	–	–	16.92	13.92	16.30	535.92
400.00	42.97	35.27	33.27	–	–	15.76	12.76	15.89	535.80

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.