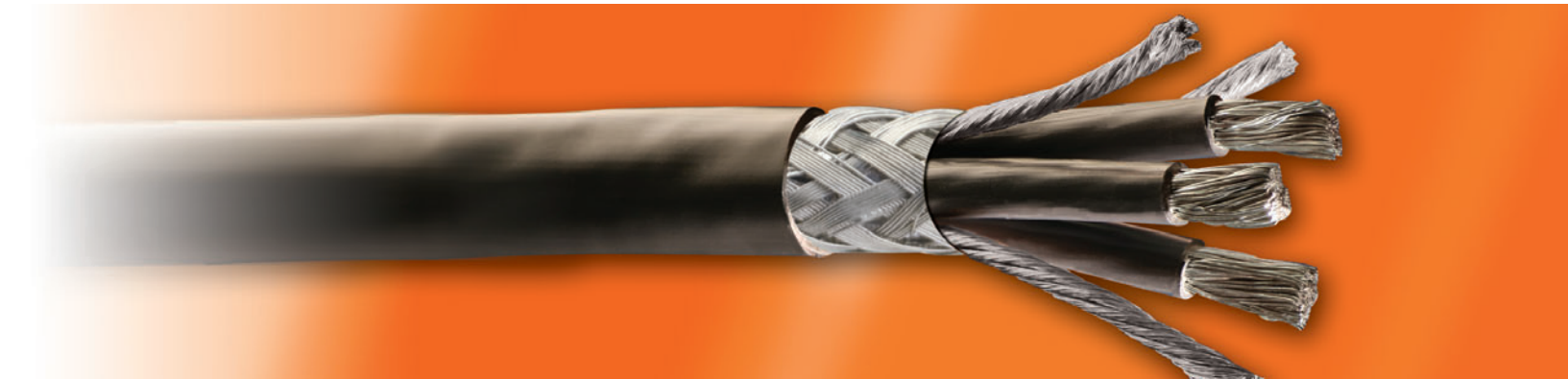


Series V 3-Conductor VFD Cables



Enhanced Design for Superior Performance

Series V cables for variable-frequency drives (VFD) set the standard in high-performance and reliable connectivity. Their specially formulated cross-linked polyethylene insulation provides superior corona resistance, low capacitance for longer runs, and excellent low-temperature properties. The three-conductor cables feature a symmetrical design with the bare copper ground wires placed in the interstices of the conductors for uniform conductor-to-ground capacitance and impedance. This uniformity reduces the probability of motor damage from common-mode current.

- Reduced chance of cable failure from voltage irregularities such as harmonics, corona discharges, and power distortion
- Reduced diameter for space savings
- Increased flexibility for easier routing and easier handling
- Symmetrical round design for uniform electric properties
- Low capacitance for improved signal transmission over longer distances
- Oil-resistant PVC jacket and polyethylene insulation
- Double shielded for maximum EMI protection
- Compatible with VFD drives from all major manufacturers
- Sold in bulk or cut to length

Alpha Wire

US/International 1-800-52 ALPHA | Europe: +44 (0) 800 288 8809
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Specifications

Materials

Conductors Stranded tinned copper
Ground Wires Stranded tinned copper
Insulation Cross-linked polyethylene
Shielding Aluminum/polyester/aluminum foil and tinned copper braid with 85% coverage (16 - 4 AWG)
Jacket Double-layer copper tape (2 - 4/0 AWG)
 Premium PVC, black

Electrical

Voltage 600 volt (UL Type TC-ER)
 1000 volt (UL Type Motor Supply)

Physical & Mechanical

Temperature Range -40°C to +90°C

Approvals

UL Standard 1277, Type TC-ER, 90°C, 600 Volt
 CE-LVD: 73/68/EEC Amend. 93/68/EEC
 UL Direct Burial
 UL Sunlight Resistant
 UL Type XHHW-2
 UL 1581 Vertical Tray
 UL 1000 Volt Flexible Motor Supply Cable
 CSA FT-4 Vertical Tray
 CSA AWM I/II A/B XHHW-2 Singles
 IEEE 1202/383 Vertical Tray
 MSHA
 RoHS Compliant



Series V 3-Conductor VFD Cables

Part No.	Wire Size		Stranding		Shielding	Insulation Thickness		Jacket Thickness		Nominal Diameter	
	AWG	mm ²	AWG	mm		Inch	mm	Inch	mm	Inch	mm
V16316	16	1.32	26/30	26 x 0.25	Foil/Braid	0.046	1.1	0.05	1.3	0.468	11.9
V16314	14	2.09	41/30	41 x 0.25	Foil/Braid	0.046	1.1	0.065	1.7	0.538	13.7
V16312	12	3.31	65/30	65 x 0.25	Foil/Braid	0.046	1.1	0.065	1.7	0.578	14.7
V16310	10	5.37	105/30	105 x 0.25	Foil/Braid	0.047	1.2	0.065	1.7	0.642	16.3
V16308	8	8.53	133/29	133 x 0.28	Foil/Braid	0.061	1.5	0.065	1.7	0.798	20.3
V16306	6	13.57	133/27	133 x 0.36	Foil/Braid	0.061	1.5	0.085	2.2	0.924	23.5
V16304	4	21.58	133/25	133 x 0.45	Foil/Braid	0.061	1.5	0.085	2.2	1.05	16.7
V16302	2	34.32	133/23	133 x 0.57	Tape	0.061	1.5	0.085	2.2	1.157	29.4
V16001	1	43.28	133/22	133 x 0.64	Tape	0.056	1.4	0.085	2.2	1.197	30.48
V16000	1/0	54.58	133/21	133 x 0.72	Tape	0.056	1.4	0.085	2.2	1.294	32.77
V16020	2/0	68.85	133/20	133 x 0.81	Tape	0.056	1.4	0.085	2.2	1.399	35.56
V16030	3/0	86.9	133/19	133 x 0.91	Tape	0.056	1.4	0.085	2.2	1.517	38.53
V16040	4/0	109	133/18	133 x 1.02	Tape	0.056	1.4	0.085	2.2	1.653	41.98

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