

Series V-Flex Flexible VFD Cable



Flexibility in a High-Performance VFD Cable

Alpha Wire's Series V-Flex cable for Variable Frequency Drive (VFD) applications is specifically designed to combat the problems of system performance and signal disruption. When generic cables degrade over time, V-Flex keeps VFD systems running with required precision. With new levels of flexibility, it makes routing and installation fast and easy.

Series V-Flex cables can withstand almost any industrial environment. Foil/braid shielding prevents signal interference, while the premium TPE jacket withstands corroding solvents and other industrial hazards. It can also be used for long runs.

Series V-Flex cables also handle extremely high voltage from standing waves without the corona discharges that can degrade cables and damage VFD components. The increased liability means less maintenance, labor and material costs, and expensive downtime.

- Rated for use at temperatures as low as -40°C
- UL and CSA Tray Cable approved
- Superior flexibility for easier routing and easier handling
- Reduced chance of cable failure from voltage irregularities such as harmonics, corona discharges, and power distortion
- Low capacitance for improved signal
- Symmetrical round design for uniform electric properties
- Transmission over longer distances
- Double shielded for maximum EMI protection
- TPE jacket for sunlight resistance and excellent resistance to solvents and oils

Specifications

Materials

Conductors	Stranded tinned copper
Ground Wires	Stranded tinned copper
Insulation	Cross-linked polyethylene
Shielding	Aluminum/polyester/aluminum foil and tinned copper braid (85% coverage)
Jacket	Thermoplastic elastomer, black

Electrical

Voltage	600/1000 volt
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Physical & Mechanical

Temperature Range -40°C to +90°C

Approvals

UL Standard 1277, Type TC-ER,
90°C, 600 Volt
CE-LVD: 2006/95/EC
UL Sunlight Resistant
UL Oil Res I/II
UL Type XHHW-2 Wet/Dry
UL Type RHW-2 Wet/Dry
UL 1000 Volt Flexible Motor Supply Cable
CSA FT4 Vertical Tray
CSA CIC Control
CSA TC
CSA -40°C Cold Bend
RoHS Compliant



4-Conductor Series V-Flex Cables

Part No.	Wire Size		Stranding		Insulation Thickness		Jacket Thickness		Nominal Diameter	
	AWG	mm ²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
VF16016	16	1.32	26/30	26 x 0.254	0.046	1.17	0.065	1.65	0.545	13.84
VF16014	14	2.08	41/30	41 x 0.254	0.046	1.17	0.065	1.65	0.584	14.83
VF16012	12	3.29	65/30	65 x 0.254	0.046	1.17	0.065	1.65	0.631	16.03
VF16010	10	5.32	105/30	105 x 0.254	0.047	1.19	0.085	2.16	0.75	19.05
VF16008	8	8.61	133/29	133 x 0.287	0.061	1.55	0.086	2.18	0.92	23.37
VF16006	6	13.6	133/27	133 x 0.361	0.061	1.55	0.086	2.18	1.017	25.83
VF16004	4	21.6	133/25	133 x 0.455	0.061	1.55	0.086	2.18	1.157	29.39

