# **Alpha Wire Industrial Series Tray-Rated Cable**







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### **Alpha Wire Industrial Series (AWIS)**

### Advanced Cable Products for Industrial Applications







From the factory floor to process control, the Alpha Wire Industrial Series (AWIS) cable line is well suited to the widest range of industrial applications. We offer a variety of cables for general needs such as control wiring in both stationary and moving components. We also offer application-specific configurations for use with drives, servo systems, and factory protocols.

AWIS cables are crafted for rugged, reliable performance in your industrial equipment. They are designed to handle even your toughest applications, whether your need is continuous flexing, superior oil and chemical resistance, or excellent mechanical and electrical performance.

Choose the AWIS cable with the properties you need:

- TC-ER, PLTC, MTW, and WTTC ratings
- · Oil and chemical resistance
- UV resistance
- Direct burial
- Abrasion resistance
- EMI protection
- High flex cycling

### **AWIS cables provide** reliable performance

#### **Series M Control Cable**

Excellent mechanical and electrical performance for stationary cable trays

# Series P Enhanced Stationary Control Cable

Superior oil and chemical resistance plus easier routing and installation

#### **Series XM Flexible Control Cable**

Tough PVC cable for continuous flex control applications

# Series F Continuous Flex Control Cables

Rated for up to 20 million rolling flex cycles

#### **Series SF Servo Control Cable**

Maximum flexibility in servo control and power

#### Series V VFD Cables

Double-shielded for superior EMI performance

#### Series V-Flex VFD Cable

CSA-rated flexible VFD cable

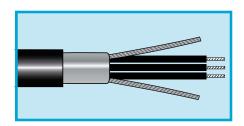
#### **Applications**

- Medium-to high-flex equipment
- Factory equipment interconnects
- Robotics
- Machine tools
- Automotive assembly equipment
- Conveyor systems
- Control panels
- Transfer shuttles
- Solar farms
- Automated pick-and-place systems
- PLC-controlled equipment
- Automated handling systems
- Control/monitoring of speed and position

### **Series V VFD Cable**



Enhanced Design for Superior Performance in Variable-Frequency Drives 600/1000 V Shielded, 3 Conductor



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.

A symmetrical design places the ground wires in the interstices of the conductors for uniform conductor-to-ground capacitance and impedance.

Smaller gauge cable feature a combination foil + braid shield to offer exceptional EMI/RFI protection in noisy environments. On larger gauge cable, a double copper tape is used to provide the same noise-free operation.

This uniformity reduces the probability of motor damage from common-mode current.

Alpha Series V VFD cables are compatible with drives from all major manufacturers.

UL RHW-2 (16 - 2 AWG)
UL XHHW-2
UL TC-ER
UL 1000V Flexible Motor
Supply Cable
CSA AWM I/II A/B FT4
CE LVD 2006/95/EC
Pennsylvania MSHA

#### **Operating Temperature**

-40°C to +90°C

#### **Conductor Color Coding**

Black, numbered

#### **Materials**

- Stranded tinned copper conductors
- Stranded tinned copper ground wires
- Cross-linked polyethylene insulation (XLPE)

Shielding
 16 - 4 AWG:
 Aluminum/polyester/aluminum
 foil and tinned copper braid
 with 85% coverage
 2 - 4/0 AWG:
 Double-layer copper tape

Black premium PVC jacket

#### **Voltage**

- 600 V (UL TC-ER)
- 1000 V (UL Motor Supply)

#### **Features**

- UL Direct Burial
- UL Sunlight Resistant
- 10x bend radius
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

#### **Availability**

Bulk, made to order

#### **FIT® Tubing Recommendations**

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321V: Low-shrinktemperature, flame-retardant cross-linked polyolefin

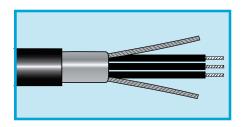
				TI	ree-Conductor	VFD Cables					
Down No.	Wire Size		Stranding		Chialdin	Insulation Thickness		<b>Jacket Thickness</b>		<b>Nominal Diameter</b>	
Part No.	AWG	mm²	AWG	mm	Shielding	Inch	mm	Inch	mm	Inch	mm
V16316	16	1.32	26/30	26 x 0.25	Foil + Braid	0.046	1.17	0.050	1.27	0.468	11.89
V16314	14	2.09	41/30	41 x 0.25	Foil + Braid	0.046	1.17	0.065	1.65	0.538	13.67
V16312	12	3.31	65/30	65 x 0.25	Foil + Braid	0.046	1.17	0.065	1.65	0.578	14.68
V16310	10	5.37	105/30	105 x 0.25	Foil + Braid	0.047	1.19	0.065	1.65	0.642	16.31
V16308	8	8.53	133/29	133 x 0.28	Foil + Braid	0.061	1.55	0.065	1.65	0.798	20.27
V16306	6	13.57	133/27	133 x 0.36	Foil + Braid	0.061	1.55	0.085	2.15	0.924	23.47
V16304	4	21.58	133/25	133 x 0.45	Foil + Braid	0.061	1.55	0.085	2.15	1.050	26.67
V16302	2	34.32	133/23	133 x 0.57	Таре	0.061	1.55	0.085	2.15	1.157	29.39
V16001	1	43.28	133/22	133 x 0.64	Tape	0.056	1.42	0.085	2.15	1.197	30.48
V16000	1/0	54.58	133/21	133 x 0.72	Tape	0.056	1.42	0.085	2.15	1.294	32.77
V16020	2/0	68.85	133/20	133 x 0.81	Tape	0.056	1.42	0.085	2.15	1.399	35.56
V16030	3/0	86.9	133/19	133 x 0.91	Tape	0.056	1.42	0.085	2.15	1.517	38.53
V16040	4/0	109	133/18	133 x 1.02	Tape	0.056	1.42	0.085	2.15	1.653	41.98



### Series V VFD Cable

Enhanced Design for Superior Performance in Variable-Frequency Drives 600/1000 V Shielded, 4 Conductor





Series V cables for variable-frequency drives (VFD) set the standard in highperformance and reliable connectivity. Their specially formulated cross-linked polyethylene insulation provides superior corona resistance, low capacitance for longer runs, and excellent low-temperature properties.

A symmetrical design places the ground wires in the interstices of the conductors for uniform conductor-to-ground capacitance and impedance.

Smaller gauge cable feature a combination foil + braid shield to offer exceptional EMI/RFI protection in noisy environments. On larger gauge cable, a double copper tape is used to provide the same noise-free operation.

This uniformity reduces the probability of motor damage from common-mode current.

Alpha Series V VFD cables are compatible with drives from all major manufacturers.

**UL RHW-2 (16 - 2 AWG) UL XHHW-2 UL TC-ER UL 1000V Flexible Motor Supply Cable** CSA AWM I/II A/B FT4 **CE LVD 2006/95/EC** Pennsylvania MSHA

#### **Operating Temperature**

-40°C to +90°C

#### **Conductor Color Coding**

Black, numbered

#### **Materials**

- Stranded tinned copper conductors
- Stranded tinned copper ground wires
- Cross-linked polyethylene insulation (XLPE)

 Shielding 16 - 4 AWG: Aluminum/polyester/aluminum foil and tinned copper braid with 85% coverage 2 - 4/0 AWG: Double-layer copper tape

Black premium PVC jacket

#### **Voltage**

- 600 V (UL TC-ER)
- 1000 V (UL Motor Supply)

#### **Features**

- UL Direct Burial
- UL Sunlight Resistant
- 10x bend radius
- Suitable for use in Class I, **Division 2 locations per Article** 501 of the National Electric Code

#### **Availability**

Bulk, made to order

#### **FIT® Tubing Recommendations**

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321V: Low-shrinktemperature, flame-retardant cross-linked polyolefin

	Four-Conductor VFD Cable with 14 AWG (2.09) Brake Pair										
Dort No.	Wire Size		Stranding		Chialdina	<b>Insulation Thickness</b>		Jacket Thickness		<b>Nominal Diameter</b>	
Part No.	AWG	mm²	AWG	mm	Shielding	Inch	mm	Inch	mm	Inch	mm
V16116	16	1.32	26/30	26 x 0.25	Foil/Braid	0.047	1.19	0.065	1.65	0.717	18.21
V16114	14	2.09	41/30	41 x 0.25	Foil/Braid	0.047	1.19	0.065	1.65	0.743	18.87
V16112	12	3.31	65/30	65 x 0.25	Foil/Braid	0.047	1.19	0.065	1.65	0.785	19.94
V16110	10	5.37	105/30	105 x 0.25	Foil/Braid	0.047	1.19	0.085	2.15	0.875	22.23
V16108	8	8.53	133/29	133 x 0.28	Foil/Braid	0.061	1.55	0.085	2.15	1.032	26.21

Four-Conductor VFD Cable											
Dovt No.	Wire Size		Stranding		Chialdina	<b>Insulation Thickness</b>		Jacket Thickness		<b>Nominal Diameter</b>	
Part No.	AWG	mm²	AWG	mm	Shielding	Inch	mm	Inch	mm	Inch	mm
V16016	16	1.32	26/30	26 x 0.25	Foil + Braid	0.047	1.19	0.065	1.65	0.547	13.89
V16014	14	2.09	41/30	41 x 0.25	Foil + Braid	0.047	1.19	0.065	1.65	0.584	14.83
V16012	12	3.31	65/30	65 x 0.25	Foil + Braid	0.047	1.19	0.065	1.65	0.633	16.08
V16010	10	5.37	105/30	105 x 0.25	Foil + Braid	0.047	1.19	0.085	2.15	0.746	18.95
V16008	8	8.53	133/29	133 x 0.28	Foil + Braid	0.061	1.55	0.086	2.15	0.920	23.37
V16006	6	13.57	133/27	133 x 0.36	Foil + Braid	0.061	1.55	0.086	2.15	1.017	25.83
V16004	4	21.58	133/25	133 x 0.45	Foil + Braid	0.061	1.55	0.086	2.15	1.157	29.39
V16002	2	34.32	133/23	133 x 0.57	Foil + Braid	0.061	1.55	0.088	2.15	1.308	33.22

Specifications subject to change. For complete specifications and availability, visit www.alphawire.com.









# **Series V VFD and V-Flex Cable Selection Guide**



		115	5 VAC. 3 Pha	se		230 VAC, 3 Phase						
Drive	Wire	Full Load	Alpha Wire Part No.				Full Load	Alpha Wire Part No.				
HP	Gauge	Current,	Series V		Series VF	Wire Gauge	Current,	Series V		VF		
	(AWG)	Amps	3 Cond.	4 Cond.	4 Cond.	(AWG)	Amps	3 Cond.	4 Cond.	4 Cond.		
1/2	16	4.4	J Cond.	4 Cond.	4 Cond.	16	2.2	5 Cond.	4 Colla.	4 Cond.		
3/4	16	6.4				16	3.2					
1	16	8.4	V16316	V16016	VF16016	16	4.2		V16016			
1-1/2	16	12.0				16	6.0	V16316		VF16016		
2	16	13.6				16	6.8					
3	_	_	_	_	_	16	9.6					
5	_	_	_	_	_	14	15.2	V16314	V16014	VF16014		
7-1/2	_	_	_	_	_	12	22	V16312	V16012	VF16012		
10	_	_	_	_	_	10	28	V16310	V16010	VF16010		
15	-	_	-	_	-	8	42	V16308	V16008	VF16008		
20	_	_	_	_	_	6	54	V16306	V16006	VF16006		
25	_	_	_	_	_	4	68	V16304	V16004	VF16004		
30	_	_	_	_	_	2	80	V16304	V16004	_		
40	_	_	_	_	_	2	104	_	V16002	_		
50	_	_	_	_	_	1/0	130	V16000		_		
60	_	_	_	_	_	2/0	154	V16020		_		
75	_	_	-	_	_	4/0	192	V16040	_	_		
		46	O VAC, 3 Pha	ase		575 VAC, 3 Phase						
Duine	3.672		Alpha Wire Par		· No		Full Load	A I	Alpha Wire Part No.			
Drive	Wire	Full Load .				Wire Gauge	Full Load _					
HP	Gauge	Current,	Seri	es V	Series VF	Wire Gauge (AWG)	Current,	Seri	es V	VF		
НР						(AWG)						
HP 1/2	Gauge (AWG) 16	Current, Amps	Seri	es V	Series VF	(AWG) 16	Current, Amps	Seri	es V	VF		
1/2 3/4	Gauge (AWG) 16 16	Current, Amps 1.1 1.6	Seri	es V	Series VF	(AWG) 16 16	Current, Amps 0.9	Seri	es V	VF		
1/2 3/4	Gauge (AWG) 16 16	Current, Amps 1.1 1.6 2.1	Seri	es V	Series VF	16 16 16	Current, Amps 0.9 1.3 1.7	Seri	es V	VF		
1/2 3/4 1 1-1/2	Gauge (AWG) 16 16 16	Current, Amps 1.1 1.6 2.1 3.0	Seri 3 Cond.	es V 4 Cond.	Series VF 4 Cond.	16 16 16 16	Current, Amps 0.9 1.3 1.7 2.4	Seri 3 Cond.	es V 4 Cond.	VF 4 Cond.		
1/2 3/4 1 1-1/2 2	Gauge (AWG) 16 16 16 16	Current, Amps 1.1 1.6 2.1 3.0 3.4	Seri	es V	Series VF	(AWG)  16  16  16  16  16  16	Current, Amps 0.9 1.3 1.7 2.4 2.7	Seri	es V	VF		
1/2 3/4 1 1-1/2 2 3	Gauge (AWG)  16  16  16  16  16  16  16	Current, Amps 1.1 1.6 2.1 3.0 3.4 4.8	Seri 3 Cond.	es V 4 Cond.	Series VF 4 Cond.	(AWG)  16  16  16  16  16  16  16	0.9 1.3 1.7 2.4 2.7 3.9	Seri 3 Cond.	es V 4 Cond.	VF 4 Cond.		
1/2 3/4 1 1-1/2 2 3 5	Gauge (AWG) 16 16 16 16 16 16	Current, Amps 1.1 1.6 2.1 3.0 3.4 4.8 7.6	Seri 3 Cond.	es V 4 Cond.	Series VF 4 Cond.	(AWG)  16  16  16  16  16  16  16  16  16	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1	Seri 3 Cond.	es V 4 Cond.	VF 4 Cond.		
1/2 3/4 1 1-1/2 2 3 5 7-1/2	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps 1.1 1.6 2.1 3.0 3.4 4.8 7.6 11	Seri 3 Cond.	es V 4 Cond.	Series VF 4 Cond.	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps 0.9 1.3 1.7 2.4 2.7 3.9 6.1 9	Seri 3 Cond.	es V 4 Cond.	VF 4 Cond.		
1/2 3/4 1 1-1/2 2 3 5 7-1/2	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps 1.1 1.6 2.1 3.0 3.4 4.8 7.6 11	Seri 3 Cond. V16316	es V 4 Cond. V16016	Series VF 4 Cond. VF16016	(AWG)  16 16 16 16 16 16 16 16 16 16 16	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11	Seri 3 Cond. V16316	es V 4 Cond. V16016	VF 4 Cond. VF16016		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21	Seri 3 Cond. V16316	es V 4 Cond. V16016	Series VF 4 Cond. VF16016	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11	Seri 3 Cond. V16316	v16014	VF 4 Cond. VF16016		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27	Seri 3 Cond. V16316 V16312 V16310	es V 4 Cond. V16016 V16012 V16010	Series VF 4 Cond. VF16016 VF16012 VF16010	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22	Seri 3 Cond. V16316 V16314 V16312	v16014 V16012	VF 4 Cond. VF16016 VF16014 VF16012		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34	Seri 3 Cond. V16316 V16312 V16310 V16308	v16012 V16000 V16008	VF16016  VF16010 VF16008	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27	Seri 3 Cond. V16316 V16314 V16312 V16310	V16016  V16014 V16012 V16010	VF 4 Cond. VF16016 VF16014 VF16012 VF16010		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30	Gauge (AWG)  16  16  16  16  16  16  16  16  10  10	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40	Seri 3 Cond. V16316 V16312 V16310 V16308 V16308	v16016 V16012 V16008 V16008	VF16016  VF16010  VF16008  VF16008	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32	V16316  V16314  V16312  V16310  V16310	V16016  V16014  V16012  V16010  V16010	VF 4 Cond. VF16016 VF16014 VF16012 VF16010 VF16010		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52	V16316  V16312 V16310 V16308 V16308 V16306	V16016  V16012 V16010 V16008 V16008 V16006	VF16016  VF16012  VF16008  VF16008  VF16006	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41	V16316  V16314  V16312  V16310  V16308	V16016  V16014  V16010  V16010  V16008	VF 4 Cond.  VF16016  VF16014  VF16012  VF16010  VF16008		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52  65	Seri 3 Cond. V16316 V16312 V16310 V16308 V16308	V16016  V16012 V16010 V16008 V16008 V16006 V16004	VF16016  VF16012  VF16008  VF16008  VF16006  VF16004	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41  52	V16314 V16312 V16310 V16308 V16306	V16014 V16010 V16010 V16008 V16006	VF 4 Cond.  VF16016  VF16014  VF16010  VF16010  VF16008  VF16006		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50 60	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52	V16316  V16312 V16310 V16308 V16308 V16306	V16016  V16012 V16010 V16008 V16008 V16006	VF16016  VF16012  VF16008  VF16008  VF16006	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41  52  62	V16316  V16314  V16312  V16310  V16308	V16016  V16014  V16010  V16010  V16008	VF 4 Cond. VF16016 VF16014 VF16012 VF16010 VF16008 VF16006 VF16004		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52  65  77  96	V16316  V16316  V16310  V16308  V16308  V16306  V16304  —	V16016  V16012 V16010 V16008 V16008 V16004 V16002 V16002	VF16016  VF16012  VF16008  VF16008  VF16006  VF16004  VF16302	(AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41  52  62  77	V16314 V16312 V16310 V16308 V16306	V16016  V16014  V16010  V16008  V16006  V16004  V16002	VF 4 Cond. VF16016 VF16014 VF16012 VF16010 VF16000 VF16006 VF16004 VF16302		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50 60 75	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52  65  77  96  124	V16316  V16312  V16310  V16308  V16308  V16304  — —	V16016  V16012 V16010 V16008 V16008 V16006 V16004 V16002	VF16016  VF16012  VF16008  VF16008  VF16006  VF16004  VF16302	(AWG)  16 16 16 16 16 16 16 16 16 16 10 10 10 8 6 4 2 2	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41  52  62  77  99	V16314 V16312 V16310 V16308 V16306	V16016  V16014  V16010  V16010  V16008  V16006  V16004	VF 4 Cond. VF16016 VF16014 VF16012 VF16010 VF16008 VF16006 VF16004		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50 60 75	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52  65  77  96  124  156	V16316  V16312  V16310  V16308  V16308  V16304  — —	V16016  V16012 V16010 V16008 V16006 V16004 V16002 V16000	VF16016  VF16012  VF16010  VF16008  VF16008  VF16004  VF16302  VF16302	(AWG)  16 16 16 16 16 16 16 16 16 16 10 10 10 8 6 4 2 2 1/0	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41  52  62  77  99  125	V16316  V16314  V16312  V16310  V16308  V16306  V16304  — —	V16016  V16014  V16010  V16008  V16006  V16004  V16002  V16002	VF 4 Cond. VF16016 VF16014 VF16012 VF16010 VF16000 VF16006 VF16004 VF16302		
1/2 3/4 1 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50 60 75 100 125	Gauge (AWG)  16  16  16  16  16  16  16  16  16  1	Current, Amps  1.1  1.6  2.1  3.0  3.4  4.8  7.6  11  14  21  27  34  40  52  65  77  96  124	V16316  V16312  V16310  V16308  V16308  V16304  — —	V16016  V16012 V16010 V16008 V16006 V16004 V16002 V16000 V16000 V16000	VF16016  VF16012  VF16010  VF16008  VF16006  VF16004  VF16302  VF16302  —	(AWG)  16 16 16 16 16 16 16 16 16 16 10 10 10 8 6 4 2 2	Current, Amps  0.9  1.3  1.7  2.4  2.7  3.9  6.1  9  11  17  22  27  32  41  52  62  77  99	V16316  V16314  V16312  V16310  V16308  V16306  V16304  — —	V16016  V16014  V16010  V16010  V16008  V16006  V16004  V16002  V16000	VF 4 Cond. VF16016 VF16014 VF16012 VF16010 VF16000 VF16006 VF16004 VF16302		



## **An Extensive Range of Flexible Cable Solutions**

Alpha Wire's industrial cables are well suited to the widest range of industrial applications, from the factory floor to process controls to wind turbines and light-duty VFD applications. We offer an extensive range of cables for general needs such as control wiring in both stationary and moving components. We also offer application-specific configurations for use with motors, drives, and servo systems.

In addition to our AWIS cable family, we offer tougher flexible alternatives in our Xtra-Guard® 65000, 85000, 86000 and 87000 Series cables with up to 14 million flex cycles. For a smaller, lighter flexible control cable, our EcoFlex® flexible control cable and EcoFlex® PUR continuous flex cable can provide up to 55% weight and 40% size savings, and both are completely recyclable. Our flexible motor supply cable provides exceptional performance in a variety of motor and drive applications. We can also create the ideal custom cable for your specific application.

General Application	Cable	Advantages
Stationary	Series M	PVC jacket Oil resistant (Oil Res. I)
Stationary/Minimal Flex	Series P	TPE jacket Improved oil and chemical resistance (Oil Res. I/II)
Moderate Flexing	EcoFlex Cable	100% recyclable mPPE insulation/jacket 1 million flex cycles RoHS and REACH compliant Size and weight reduction
	Xtra-Guard Standard Flex (65000 Series)	1 million flex cycles PVC jacket
_	EcoFlex PUR Continuous Flex	Polyurethane jacket, mPPE insulation 8 million flex cycles Zero halogen Saves space and weight
	Series XM	12 million flex cycles Oil resistant (Oil Res. I)
High Flexing	Series F	20 million flex cycles Improved oil and chemical resistance (Oil Res. I/II)
nigii riexilig	Xtra-Guard Continuous Flex Data (86000 Series)	6 million flex cycles PVC jacket
	Xtra-Guard Continuous Flex Control (85000 Series)	14 million flex cycles PVC jacket
	Xtra-Guard Torsional Flex (87000 Series)	1 million flex cycles TPE insulation, polyurethane jacket
Servomotors/Drives	Series SF	TPE jacket Enhanced flexibility for easy installation and routing Improved oil and chemical resistance (Oil Res. I/II) With or without brake/ground pairs
VFD Systems	Series V Series V-Flex	Oil resistant (Oil Res. I) Low capacitance for extended runs XLPE insulation for improved dielectric properties Excellent corona resistance Uniform geometry for reduced common-mode current
Motor Supply	Flexible Motor Supply	PVC jacket Oil resistant (Oil Res. I) Suited to light-duty flexing and VFD applications

#### Cables you trust. Service you deserve.

Every application is critical and cable failure is not an option when the safety of equipment and personnel is paramount.

Specify Alpha cable for rugged, reliable performance, since the integrity of your system is only as robust as the products you use.

#### **Custom cable is standard**

Alpha Wire goes one step further: manufacturing custom cables to meet unique applications—offering specific conductor counts, shielding options, jacket materials, and versatile product designs. Our custom cable orders are often shipped in less than a week, once again giving you products with more convenience and less delay.

# Service and support, second-to-none

Selecting the correct cable for your critical application is essential to overall system reliability, performance, and safety. So we make it easy for you to select the right Alpha cable for your specific application. Our online resources include a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the cable you need. Can't find what vou're looking for? Design the cable to your specification. It's easy, just visit www.alphawire.com!

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