



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

# Customer Specification

## PART NO. V16001

### Construction

			Diameters (In)				
1) Component 1	3 X 1 COND						
a) Conductor	1 (133(7x19)/22) AWG TC			0.358			
b) Insulation	0.056" Wall, Nom. XLPE			0.470			
(1) Print	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED						
(2) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	BLACK#1	2	BLACK#2	3	BLACK#3		
2) Cable Assembly	3 Components Cabled						
a) Twists:	0.8 Twists/foot (min)						
3) Shield:	Double Copper Tape, 25% Overlap, Min.						
a) Drain Wire	3 x 6 (133(7X19)/27) AWG TC						
4) Jacket	0.085" Wall, Nom.,PVC			1.197 (1.223 Max.)			
a) Color(s)	BLACK						
b) Ripcord	1 End 810 Denier Nylon						
c) Print	ALPHA WIRE P/N V16001 EXXXXX SERIES V VFD CABLE 3C1 SHIELDED 1000V FLEXIBLE MOTOR SUPPLY CABLE 600V TYPE TC-ER (UL) XHHW-2 CDRS XLPE/PVC 90C SUN RES DIR BUR --- P-07-KA070003-MSHA LLXXXXXX CSA AWM I/II A/B 600V 90C FT4 CANADA ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]						

### Applicable Specifications

1) UL		
a) Component 1	XHHW-2Wet/Dry	90°C / 600 V <sub>RMS</sub>
b) Overall	TC	90°C / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	DIRECT BURIAL	
	SUN RES	
	1000V Flexible Motor Supply Cable	
2) CSA International	AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
	FT4	
3) Other	PMSHA Specification	
4) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

## Environmental

### 1) EU Directive 2002/95/EC(RoHS):

All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

### 2) California Proposition 65:

The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

## Properties

### Physical & Mechanical Properties

1) Temperature Range	-40 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	2650 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Inductance	0.146 µH/ft, Nominal
3) Mutual Capacitance	44 pf/ft @1 kHz, Nominal
4) Ground Capacitance	79 pf/ft @1 kHz, Nominal
5) Conductor DCR	0.13 /1000ft @20°C, Nominal
6) Current	150 amps per conductor @30°C, Maximum

## Other

### 1) Packaging

#### a) Bulk(Made-to-order)

[www.alphawire.com](http://www.alphawire.com)

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: V16001

V16001, RoHS-Compliant Commencing With 11/1/2007 Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. No Exemptions are required for RoHS Compliance on this item.*

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

*The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.*

Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read "Dave Watson".

Dave Watson, Director of Engineering & QA

11/2/2012

# Mouser Electronics

Authorized Distributor

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