



# Customer Specification

## PART NO. V16020

### Construction

				<b>Diameters (In)</b>	
1) Component 1		3 X 1 COND			
a) Conductor		2/0 (133(7x19)/20) AWG TC		0.452	
b) Insulation		0.056" Wall, Nom. XLPE		0.564	
(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:		0.7 Twists/foot (min)			
3) Shield:		Double Copper Tape, 25% Overlap, Min.			
a) Drain Wire		3 x 4 (133(7X19)25) AWG TC			
4) Jacket		0.085" Wall, Nom.,PVC		1.399 (1.427 Max.)	
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE P/N V16020 EXXXXX SERIES V VFD CABLE 3C2/0 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 <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

### 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	4200 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	0.141 µH/ft, Nominal
3) Mutual Capacitance	46 pf/ft @ 1 kHz, Nominal
4) Ground Capacitance	83 pf/ft @ 1 kHz, Nominal
5) Conductor DCR	0.079 /1000ft @20°C, Nominal
6) Current	195 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:V16020

V16020 , RoHS-Compliant Commencing With11/1/2007Production

*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.***

<b>Substance</b>	<b>Maximum Control Value</b>
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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) 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:

Dave Watson, Director of Engineering &QA

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