



Customer Specification

PART NO. V16002

Construction

				Diameters (In)	
1) Component 1		4 X 1 COND			
a) Conductor		2 (133(7x19)/23) AWG TC		0.330	
b) Insulation		0.061" Wall, Nom. XLPE		0.452	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	BLACK#1	3	BLACK#3		
2	BLACK#2	4	GREEN OR GREEN/YELLOW		
2) Cable Assembly		4 Components Cabled			
a) Twists:		0.7 Twists/foot (min)			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		4 x 8 (133(7X19)/29) AWG TC			
b) Braid		TC,85% Coverage, Min.			
4) Jacket		0.088" Wall, Nom.,PVC		1.308 (1.351 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE- EXXXXX SERIES V P/N V16002 VFD CABLE 4C2 SHIELDED 1000V FLEXIBLE MOTOR SUPPLY CABLE 600V TYPE TC-ER (UL) RHW-2 CDRS XLPE/PVC 90C DRY/ WET SUN RES DIR BUR --- LLXXXXXX CSA AWM I/II A/B 1000V 90C FT4 ROHS <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL		
a) Component 1	RHW-2Wet/Dry	90°C / 600 V _{RMS}
	XHHW-2Wet/Dry	90°C / 600 V _{RMS}
b) Overall	TC	90°C / 600 V _{RMS}
	EXPOSED RUN	
	DIRECT BURIAL	
	SUN RES	
	1000V Flexible Motor Supply Cable	
	WTTC	90°C / 1000 V _{RMS}
2) CSA International	AWM I/II A/B	90°C / 1000 V _{RMS}
	FT4	
3) 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	8X Cable Diameter
3) Pull Tension	2110 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Characteristic Impedance	46
3) Inductance	0.153 µH/ft, Nominal
4) Mutual Capacitance	40 pf/ft @ 1 kHz, Nominal
5) Ground Capacitance	72 pf/ft @ 1 kHz, Nominal
6) Conductor DCR	0.16 /1000ft @20°C, Nominal
7) OA Shield DCR	0.15 /1000ft @20°C, Nominal
8) Current	104 amps per conductor @30°C, Maximum
9) Insulation Resistance	300 M/MFt (Est.)

Other

1) Packaging	
a) Bulk(Made-to-order)	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:V16002

V16002 , RoHS-Compliant Commencing With10/1/2005Production

*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	0.1% 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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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