

# Customer Specification PART NO. V16004

# Construction

				Diameters (In)		
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		4 (133(7x19)/25)	4 (133(7x19)/25) AWG TC		0.264	
b) Insulation		0.061" Wall, Non	0.061" Wall, Nom. XLPE		0.386	
(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 C	4 Components Cabled			
a) Twists:		0.9 Twists/foot (r	0.9 Twists/foot (min)			
3) Shield:		A/P/A Tape, 25%	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		4 x 10 (105/30) A	4 x 10 (105/30) AWG TC			
b) Braid		TC,85% Coverag	TC,85% Coverage, Min.			
4) Jacket		0.086" Wall, Non	0.086" Wall, Nom.,PVC		1.157+/- 0.023	
a) Color(s)		BLACK	BLACK			
b) Jacket Separator		Tissue Tape, 25 <sup>o</sup>	Tissue Tape, 25% Overlap, Min.			
c) Print		SHIELDED 1000 TC-ER (UL) RHV DIR BUR 4 AWG CSA AWM I/II A/ * = Factory Code	ALPHA WIRE-* EXXXXX SERIES V P/N V16004 VFD CABLE 4C4 SHIELDED 1000V FLEXIBLE MOTOR SUPPLY CABLE 600V TC-ER (UL) RHW-2 CDRS XLPE/PVC 90C DRY/WET SUN RES DIR BUR 4 AWG P-07-KA080006-MSHA LLXXXXX CSA AWM I/II A/B 1000V 90C FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

# **Applicable Specifications**

1) UL		
a) Component 1	RHW-2Wet/Dry	90°C / 600 V <sub>RMS</sub>
	XHHW-2Wet/Dry	90°C / 600 V <sub>RMS</sub>
b) Overall	тс	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 / 1000 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	1692 Lbs, Maximum		
4) Sunlight Resistance	Yes		
5) Direct Burial	Yes		
6) Copper Weight	770 Lbs/1000Ft		
7) Cable Weight	1185 Lbs/1000Ft		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V <sub>RMS</sub>		
2) Characteristic Impedance	50		
3) Inductance	0.161 μH/ft, Nominal		
4) Mutual Capacitance	37 pf/ft @1 kHz, Nominal		
5) Ground Capacitance	67 pf/ft @1 kHz, Nominal		
6) Conductor DCR	0.27 /1000ft @20°C, Nominal		
7) OA Shield DCR	0.22 /1000ft @20°C, Nominal		
8) Current	76 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:V16004

V16004, 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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
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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