

Customer Specification PART NO. V16014

Construction

				Diameters (In))	
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		14 (41/30) AWG	14 (41/30) AWG TC			
b) Insulation		0.047" Wall, Nor	0.047" Wall, Nom. XLPE		0.172	
(1) Separator		Paper Tape, 10%	Paper Tape, 10% Overlap, Min.			
(2) 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:		2.0 Twists/foot (r	2.0 Twists/foot (min)			
3) Shield:		A/P/A Tape, 25%	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		14 (41/30) AWG	14 (41/30) AWG TC			
b) Braid		TC,85% Covera	TC,85% Coverage, Min.			
4) Jacket		0.065" Wall, Nor	0.065" Wall, Nom.,PVC		0.584+/- 0.022	
a) Color(s)		BLACK	BLACK			
b) Jacket Separator		Tissue Tape, 25	Tissue Tape, 25% Overlap, Min.			
c) Print		4C14 SHIELDED 600V TYPE TC- WET SUN RES 1000V 90C FT4	ALPHA WIRE- EXXXXX SERIES V P/N V16014 VFD CABLE 4C14 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 CE ROHS [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 _{RMS}	
	XHHW-2Wet/Dry	90°C / 600 V _{RMS}	
b) Overall	тс	90°C / 600 V _{RMS}	
	EXPOSED RUN		
	DIRECT BURIAL		
	SUN RES		
	1000V Flexible Motor Supply Cable		
2) CSA International	AWM I/II A/B	90°C / 1000 V _{RMS}	
	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	175 Lbs, Maximum		
4) Sunlight Resistance	Yes		
5) Direct Burial	Yes		
6) Copper Weight	97 Lbs/1000Ft		
7) Cable Weight	225 Lbs/1000Ft		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V _{RMS}		
2) Characteristic Impedance	80		
3) Inductance	0.213 µH/ft, Nominal		
4) Mutual Capacitance	23 pf/ft @1 kHz, Nominal		
5) Ground Capacitance	42 pf/ft @1 kHz, Nominal		
6) Conductor DCR	2.8 /1000ft @20°C, Nominal		
7) OA Shield DCR	0.92 /1000ft @20°C, Nominal		
8) Current	20 amps per conductor @30°C, Maximum		
9) Insulation Resistance	300 M/MFt (Est.)		

Other

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

www.alphawire.com

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

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:V16014

V16014, 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

1/20/2011