

Request a Sample

# Customer Specification PART NO. VF16012

#### Construction

				Diameters (In)		
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		12 (65/30) AWG	12 (65/30) AWG TC		0.093	
b) Insulation		0.046" Wall, Nom	0.046" Wall, Nom. XLPE		0.189	
(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:		1.8 Twists/foot (n	1.8 Twists/foot (min)			
3) Shield:		A/P/A Tape, 25%	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		12 (65/30) AWG	12 (65/30) AWG TC			
b) Braid		TC,85% Coverag	TC,85% Coverage, Min.			
4) Jacket		0.065" Wall, Nom	0.065" Wall, Nom.,TPE		0.631+/- 0.017	
a) Color(s)		BLACK	BLACK			
b) Jacket Separator		Tissue Tape, 25%	Tissue Tape, 25% Overlap, Min.			
c) Print		1000V FLEXIBLE TC-ER -40C RHV OIL I/II OR 12 AW SUN RES 90C W CE ROHS (DATE	ALPHA WIRE-L VF16010 VFD CABLE 4C12 SHIELDED (UL)  1000V FLEXIBLE MOTOR SUPPLY CABLE 600V TYPE  TC-ER -40C RHW-2 CDRS XLPE/TPE 90C DRY/WET SUN RES  OIL I/II OR 12 AWG C(UL) CIC CONTROL/TC -40C  SUN RES 90C WET/DRY XLPE INS FT4  CE ROHS (DATE CODE) (SEQ FOOTAGE)  [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 Dry / 90°C Wet / 600 V <sub>RMS</sub>
	XHHW-2Wet/Dry	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>
b) Overall	тс	90°C / 600 V <sub>RMS</sub>
	SUN RES	
	OIL RES I/II	
	EXPOSED RUN	
	1000V Flexible Motor Supply Cable	90°C / 1000 V <sub>RMS</sub>
2) CSA International	C(UL) CIC CONTROL	90°C / 600 V <sub>RMS</sub>
	C(UL) TC	90°C / 600 V <sub>RMS</sub>
	C(UL) -40C	
	C(UL) FT4	
3) CE:	EU Low Voltage Directive 2006/95/EC	

### Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):			
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item.		
2) REACH Regulation (EC 1907/2006):			
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.		

#### **Properties**

Toperties				
Physical & Mechanical Properties				
1) Temperature Range	-40 to 90°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	269 Lbs, Maximum			
4) Sunlight Resistance	Yes			
5) Copper Weight	139 Lbs/1000Ft			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	1000 V <sub>RMS</sub>			
2) Characteristic Impedance	71 Ω			
3) Inductance	0.197 μH/ft, Nominal			
4) Mutual Capacitance	26 pf/ft @1 kHz, Nominal			
5) Ground Capacitance	47 pf/ft @1 kHz, Nominal			
6) Conductor DCR	1.76 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	0.81 Ω/1000ft @20°C, Nominal			
8) Current	24 amps per conductor @30°C, Maximum			
9) Insulation Resistance	300 MΩ/MFt (Est.)			

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

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#### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: VF16012

VF16012, RoHS-Compliant Commencing With 5/16/2012 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

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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) ,			
Including Deca-BDE	0.1% by weight (1000 ppm)		
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)		
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)		
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)		
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)		

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

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