

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Request a Sample

# Customer Specification PART NO. 79111

#### Construction

Construction						
				Diameters (In)		
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		18 (16/30) AWG	18 (16/30) AWG Tinned Copper		0.047	
b) Insulation		0.010" Wall, Nor Ether	0.010" Wall, Nom. Modified Polyphenylene Ether		0.067	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	3	WHITE			
2	RED	4	GREEN			
2) Cable Assembly		4 Components 0	4 Components Cabled			
a) Twists:		6.9 Twists/foot (	6.9 Twists/foot (min)			
b) Orientation:		· ·	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield		Tinned Copper E	Tinned Copper BRAID Shield,85% Coverage, Min.			
4) Jacket		0.035" Wall, Nor	0.035" Wall, Nom.,MPPE		0.264+/- 0.011	
a) Color(s)		SLATE	SLATE			
b) Jacket Separator		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
c) Print		ECOFLEX(TM) F 80C 300V VW-1 600V 105C CE F	ALPHA WIRE-* P/N 79111 4C 18 AWG ECOFLEX(TM) RU AWM 21819 105C 600V OR 21492 80C 300V VW-1 CLASS K C(RU) AWM I/II A/B FT1 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code			

### **Applicable Specifications**

1) UL	AWM/STYLE 21819	105°C / 600 V <sub>RMS</sub>
	AWM/STYLE 21492	80°C / 300 V <sub>RMS</sub>
	VW-1	
2) CSA International	C(RU) AWM I/II A/B FT1	105C°C / 600V V <sub>RMS</sub>
3) Other	Halogen-Free	
4) CE:	EU Low Voltage Directive 2014/35/EC	

#### Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

**Properties** 

Physical & Mechanical Properties				
1) Temperature Range	-40 to 105°C(static), -5 to 105°C (dynamic)			
2) Bend Radius	6X Cable Diameter(static), 8X Cable Diameter(dynamic)			
3) Pull Tension	55 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V <sub>RMS</sub>			
2) Capacitance	34 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	61 pF/ft @1 kHz, Nominal			
4) Inductance	0.16 μH/ft, Nominal			
5) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	4.7 Ω/1000ft @20°C, Nominal			

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 100 FT	12 x 4.5 x 3.5 Continuous length
	[Spool dimensions may vary slightly]

www.alphawire.com

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

To Whom It May Concern:
Alpha Wire Part Number: 79111

79111, RoHS-Compliant Commencing With 7/27/2012 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.

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)		

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:

Dave Watson, Director of Engineering & QA

Alpha Wire

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