

# Customer Specification

## PART NO. 881812

### Construction

		<b>Diameters (In)</b>			
1) Component 1		12 X 1 COND			
a) Conductor		18 (16/30) AWG TC		0.047	
b) Insulation		0.016" Wall, Nom. PVC		0.079	
(1) Color Code		Alpha Wire Company Color Code F			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	ORANGE	9	GREEN/BLACK
2	WHITE	6	BLUE	10	ORANGE/BLACK
3	RED	7	WHITE/BLACK	11	BLUE/BLACK
4	GREEN	8	RED/BLACK	12	BLACK/WHITE
2) Cable Assembly		12 Components Cabled			
a) Twists:		2.5 Twists/foot (min)			
3) Jacket		0.040" Wall, Nom.,PVC		0.408 (0.424 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 881812 12C 18 AWG (UL) TYPE CL2 90C OR AWM 2464 80C 300V --- LLXXXXX CSA AWM II A/B 90C 300V FT4 ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

### Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	CL2	90°C
2) CSA International	AWM II A/B	90°C / 300 V <sub>RMS</sub>
	FT4	

### 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) REACH Regulation (EC 1907/2006):	
	This product does not contain any of the 16 substances listed on the European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.

### Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	151 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	33 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 μH/ft, Nominal
4) Conductor DCR	7.2 O/1000ft @20°C, Nominal

## Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 250 FT	
d) 100 FT	
e) Bulk(Made-to-order)	

[www.alphawire.com](http://www.alphawire.com)

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:881812

881812 , RoHS-Compliant Commencing With7/1/2005Production

*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.***

<b>Substance</b>	<b>Maximum Control Value</b>
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)

*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 Company:

Dave Watson, Director of Engineering &QA

1/21/2011