

## Customer Specification

### PART NO. 781836

### Construction

	Diameters (In)	
1) Component 1	1 X 1 HOOKUP	
a) Conductor	1 (836(19x44)/30) AWG Tinned Copper	0.383
b) Insulation	0.082" Wall, Nom. PVC	0.547 +/- 0.006
(1) Print	ALPHA WIRE E163872-* (UL) MTW OR THW 600V OR AWM 1284/1232 105C 600V VW-1 1 AWG OR CRU AWM I A/B 105C 600V FT1 OR TEW 105C 600V FT1 CE ROHS {0} * = Factory Code	
(2) Color(s)	WHITE, BLACK, RED, GREEN, YELLOW, BLUE, BROWN ORANGE, SLATE, VIOLET, GREEN/YELLOW	

### Applicable Specifications

1) UL	VW-1	
	AWM/STYLE 1284	105°C / 600 V <sub>RMS</sub>
	AWM/STYLE 1232	105°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	THW	75°C Dry / 75°C Wet / 600 V <sub>RMS</sub>
	MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
2) CSA International	C(RU) AWM I A/B FT1	105°C / 600 V <sub>RMS</sub>
	FT1	
	C(RU) TEW	105°C / 600 V <sub>RMS</sub>
3) CE:	EU Low Voltage Directive 2014/35/EU	

### Environmental

--

1) EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU and the amending Directive 2015/863/EU of 4 June 2015 regarding the restriction of use of certain hazardous substances in electrical and electronic equipment.
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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 105°C
2) Bend Radius	5X Cable Diameter
3) Pull Tension	661 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Inductance	0.04 μH/ft, Nominal
3) Conductor DCR	0.14 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 2000 FT	36 x 14 x 12 Continuous length
b) 1000 FT	30 x 14 x 12 Continuous length
c) 500 FT	18 x 14.25 x 8 Continuous length
d) 100 FT	18 x 9 x 8 Continuous length
e) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Striping to be lateral	
b) Certain colors and put-up combinations may only be available by special order, minimums may apply.	

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

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure the accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. <br /><br />  
©2019 ALPHA WIRE - all rights reserved.



