

# Customer Specification

## PART NO. 79224

### Construction

						Diameters (In)	
1) Component 1						12 X 1 COND	
a) Conductor						16 (26/30) AWG Tinned Copper	0.059
b) Insulation						0.011" Wall, Nom. Modified Polyphenylene Ether	0.081
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	5	ORANGE	9	VIOLET		
2	RED	6	BLUE	10	SLATE		
3	WHITE	7	BROWN	11	PINK		
4	GREEN	8	YELLOW	12	TAN		
2) Cable Assembly						12 Components Cabled	
a) Twists:						3.0 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Nonwoven Polyester Tape, 25% Overlap, Min.	
3) Shield:						A/P/A Tape, 25% Overlap, Min.	
a) Braid						Tinned Copper, 70% Coverage, Min.	
4) Jacket						0.035" Wall, Nom., MPPE	0.443 +/- 0.017
a) Color(s)						SLATE	
b) Jacket Separator						Nonwoven Polyester Tape, 25% Overlap, Min.	
c) Print						ALPHA WIRE-* P/N 79224 12C 16 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

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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	105°C / 600V V <sub>RMS</sub>
3) Other	Halogen-Free	
	NFPA 79 - 2015 Compliant	
4) CE:	EU Low Voltage Directive 2014/35/EU	

## 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.
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(static), -5 to 105°C (dynamic)
2) Bend Radius	6X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	252 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	37 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	67 pF/ft @1 kHz, Nominal
4) Inductance	0.15 µH/ft, Nominal
5) Conductor DCR	4.5 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.9 Ω/1000ft @20°C, Nominal

## Other

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<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 100 FT	12 x 5.94 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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

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