

Customer Specification

PART NO. 79040

Construction

						Diame	eters (In)	
1) Component 1 7 X 1 COND								
a) Conductor 12 (65/3		12 (65/30) A\	0) AWG Tinned Copper					
b) Insulation 0.012"		0.012" Wall, I	" Wall, Nom. Modified Polyphenylene Ether					
(1) Color Code		Alpha Wire Color Code D						
Cond	Color		Cond	Color	Cond		Color	
1	BLACK		4	GREEN	7		BROWN	
2	RED		5	ORANGE				
3	WHITE		6	BLUE				
2) Cable Assembly		7 Components Cabled						
a) Twists:		2.8 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) Jacket		0.035" Wall, Nom.,MPPE				0.428+	0.428+/- 0.014	
a) Color(s)		SLATE						
b) Print		ALPHA WIRE-* P/N 79040 7C 12 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

AWM/STYLE 21819	105°C / 600 V _{RMS}	
AWM/STYLE 21492	80°C / 300 V _{RMS}	
VW-1		
C(RU) AWM I/II A/B FT1	105C°C / 600V V _{RMS}	
Halogen-Free		
NFPA 79 - 2015 Compliant		
EU Low Voltage Directive 2014/35/EU		
	AWM/STYLE 21492 VW-1 C(RU) AWM I/II A/B FT1 Halogen-Free NFPA 79 - 2015 Compliant	AWM/STYLE 21492 80°C / 300 V _{RMS} VW-1 C(RU) AWM I/II A/B FT1 105C°C / 600V V _{RMS} Halogen-Free NFPA 79 - 2015 Compliant

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	5X Cable Diameter(static), 5X Cable Diameter(dynamic)	
3) Pull Tension	357 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Capacitance	23.5 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Inductance	0.14 μH/ft, Nominal	
4) Conductor DCR	1.78 Ω/1000ft @20°C, Nominal	

Other

Packaging	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	
	[Spool dimensions may vary slightly]	

www.alphawire.com

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💋 AlphaWire

EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 79040

79040, RoHS-Compliant Commencing With 10/29/2012 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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 2 per GB/T 26572-2011.

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 5/8/2024

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