

Customer Specification

PART NO. 77023

Construction

						Dian	neters (In)	
1) Component 1 5 X 1 COND								
a) Conductor		18 (16/30) AWG Tinned Copper				0.045	0.045	
		0.012" Wall, Nom. MPPE				0.069	0.069	
(1) Color Code		Alpha Wire Color Code E						
Cond	Color		Cond	Color	Cond		Color	
1	BLACK		3	RED	5		YELLOW	
2	BROWN		4	ORANGE				
2) Cable Assembly 5 Component		5 Components	ts Cabled					
a) Twists:		6.0 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) Jacket		0.032" Wall, Nom.,MPPE				0.255	0.255 (0.267 Max.)	
a) Color(s) SLATE		SLATE						
b) Ripcord 1 End 810 De		1 End 810 Der	nier Nylon					
c) Print		ALPHA WIRE-* P/N 77023 5C 18 AWG ECOCABLE(R) RU AWM 21915 105C 600V C(RU) AWM I/II A/B FT2 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code						

Applicable Specifications

1) UL			
a) Component 1	AWM/STYLE 11231	105°C / 600 V _{RMS}	
b) Overall	AWM/STYLE 21915	105°C / 600 V _{RMS}	
	Horizontal Flame		
2) CSA International	C(RU) AWM I/II A/B FT2	105°C / 600 V _{RMS}	
3) Other	Halogen-Free		
	NFPA 79 - 2015 Compliant		
4) CE:	EU Low Voltage Directive 2014/35/EU		
(4) CE:	EU LOW VOITage 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 190	07/2006):	
	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	-50 to 105°C		
2) Bend Radius	6X Cable Diameter		
3) Pull Tension	63 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V _{RMS}		
2) Capacitance	17.8 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Inductance	0.17 μH/ft, Nominal		
4) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	13.5 x 10 x 4 Continuous length	
b) 100 FT	10.5 x 5 x 3.5 Continuous length	
	[Spool dimensions may vary slightly]	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 77023

77023, RoHS-Compliant Commencing With 10/12/2012 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 5/2/2024

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