

Customer Specification

PART NO. 77223

Construction

					Diameters (In)
1) Component 1	3 X 1 COND				
a) Conductor	16 (19/.0117) AWG Tinned Copper				0.059
b) Insulation	0.012" Wall, Nom. MPPE				0.083
(1) Color Code	Alpha Wire Color Code E				
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN	3	RED
2) Cable Assembly	3 Components 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) Shield:	A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire	18 (16/30) AWG Tinned Copper				
b) Braid	Tinned Copper, 70% Coverage, Min.				
4) Jacket	0.032" Wall, Nom., MPPE				0.275 (0.286 Max.)
a) Color(s)	SLATE				
b) Ripcord	1 End 810 Denier Nylon				
c) Print	ALPHA WIRE-* P/N 77223 3C 16 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	

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	-50 to 105°C
2) Bend Radius	6X Cable Diameter
3) Pull Tension	78 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V _{RMS}
2) Capacitance	32 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	58 pF/ft @1 kHz, Nominal
4) Inductance	0.16 μH/ft, Nominal
5) Conductor DCR	4.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.6 Ω/1000ft @20°C, Nominal

Other

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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
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

Alpha Wire | 1320 City Center Drive, Suite 100, Carmel, IN 46032

Tel: 1-800-52 ALPHA (25742)

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 77223

77223, RoHS-Compliant Commencing With 10/15/2012 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 2002/95/EC (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 complies with these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** This product complies with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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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 issuance. This document is intended to serve 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 is not to provide a warranty of any kind. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation to their specific product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/12/2024

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-908-925-8000