

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 77103
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Issue: 4
Issue Date: 1/15/2013
Effective Date: 1/15/2013

A. Construction

1)	Component 1	3 X 1 COND	
a)	Conductor	24 (7/32) AWG TC	0.024
b)	Insulation	0.010" Wall, Nom. MPPE	0.044
	(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:	12.0 Twists/foot (min)	
	b) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.	
3)	Shield:	Alum/Mylar Tape, 25% Overlap, Min.	
	a) Foil Direction	Foil Facing In	
	b) Drain Wire	24 (7/32) AWG TC	
4)	Jacket	0.032" Wall, Nom., MPPE	0.167 (0.177 Max.)
	a) Color(s)	SLATE	
	b) Ripcord	1 End 810 Denier Nylon	
	c) Print	ALPHA WIRE-* P/N 77103 3C 24 AWG ECOCABLE(TM) RU AWM 21510 105C 600V VW-1 C(RU) AWM I/II A/B FT1 600V 105C CE ROHS (SEQ FOOTAGE)	

B. Applicable Specifications

1) UL	Component 1	AWM/STYLE 11231	105°C / 600 V _{RMS}
	Overall	AWM/STYLE 21510	105°C / 600 V _{RMS}
		VW-1	
2) CSA International	C(RU)	AWM I/II A/B FT1	105°C / 600 V _{RMS}
3) CE:	EU	Low Voltage Directive 2006/95/EC	

C. Environmental Compliance

- 1) CE: EU Directive 2011/65/EU(RoHS2):
This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for [RoHS C of C](#).
- 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. For up-to-date information, please see [Alpha's REACH SVHC Declaration](#).
- 3) California Proposition 65:
The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

D. Physical & Mechanical Properties

1) Temperature Range	-50 to 105°C
2) Bend Radius	6X Cable Diameter
3) Pull Tension	14.1 Lbs, Maximum

E. Electrical Properties

1) Voltage Rating	600 V _{RMS}
2) Capacitance	21.9 pF/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	39 pF/ft @ 1 kHz, Nominal
4) Inductance	0.19 μ H/ft, Nominal
5) Conductor DCR	26 Ω /1000ft @ 20°C, Nominal
6) OA Shield DCR	19.6 Ω /1000ft @ 20°C, Nominal

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F. Other

1) Packaging
a) 1000 FT
b) 100 FT

Flange x Traverse x Barrel (inches)
12 x 6 x 3.5 Continuous length
6.5 x 2 x 1.9 Continuous length
[Spool dimensions may vary slightly]

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