

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 78028
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Issue: 1
Issue Date: 7/11/2014
Effective Date: 9/5/2014

- A. Construction** **Diameters (In)**
- 1) Component 1 8 X 1 COND
 - a) Conductor 24 (19/36) AWG Tinned Copper 0.025
 - b) Insulation 0.007" Wall, Nom. Modified Polyphenylene Ether-PE 0.039
 - (1) Color Code Alpha Wire Color Code E

Cond	Color	Cond	Color	Cond	Color
1	BLACK	4	ORANGE	7	BLUE
2	BROWN	5	YELLOW	8	VIOLET
3	RED	6	GREEN		

- 2) Cable Assembly 8 Components Cabled
- a) Twists: 6.0 Twists/foot (min)
- b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Jacket 0.015" Wall, Nom., Modified Polyphenylene Ether-PE 0.164 (0.174 Max.)
- a) Color(s) SLATE
- b) Ripcord 1 End 810 Denier Nylon
- c) Print ALPHA WIRE-* P/N 78028 8C 24 AWG
 ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1
 C(RU) AWM I A/B FT1 80C 300V
 CE ROHS (SEQ FOOTAGE)
 * = Factory Code

B. Applicable Specifications

- 1) UL AWM/STYLE 21460 80°C / 300 V_{RMS}
VW-1
- 2) CSA International C(RU) AWM I A/B FT1 80°C / 300 V_{RMS}
- 3) Other Halogen-Free
- 4) 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](#).

D. Physical & Mechanical Properties

- 1) Temperature Range -40 to 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 30 Lbs, Maximum

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
- 2) Capacitance 18.9 pf/ft @ 1 kHz, Nominal Conductor to Conductor
- 3) Inductance 0.17 µH/ft, Nominal
- 4) Conductor DCR 24.1 Ω/1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) 1000 FT 12 x 6 x 3.5 Continuous length
 - b) 100 FT 6.5 x 2 x 1.9 Continuous length
 - c) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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