ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45114	**Issue: 15**
Page 1 of 2 Pages	**Issue Date: 1/19/2015**
	Effective Date: 1/31/2015

A. Construction — **Diameters (In)**

1) Component 1 — 4 X 1 COND
   a) Conductor — 24 (7/32) AWG Tinned Copper — 0.024
   b) Insulation — 0.016" Wall, Nom. TPE — 0.056
      (1) Color Code — Alpha Wire Color Code E

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	BROWN	4	ORANGE		

2) Cable Assembly — 4 Components Cabled
   a) Twists: — 8.0 Twists/foot (min)
   b) Core Wrap — Nonwoven Polyester Tape, 25% Overlap, Min.
3) Shield: — A/P/A Tape, 25% Overlap, Min.
   a) Drain Wire — 24 (7/32) AWG Tinned Copper
   b) Braid — Tinned Copper,70% Coverage, Min.
4) Jacket — 0.042" Wall, Nom.,TPE — 0.252 (0.263 Max.)
   a) Color(s) — Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White
   b) Ripcord — 1 End 810 Denier Nylon
   c) Print — ALPHA WIRE-* P/N 45114
   XTRAGUARD(R) 4 RU AWM 20237/21918 125C 300V SUN
   RES OR CRU AWM I/II A/B 125C 300 VOLTS FT1
   P-07-KA140023-MSHA CE ROHS
   (SEQ FOOTAGE)
   * = Factory Code

B. Applicable Specifications

1) UL — AWM/STYLE 20237 — 125°C / 300 V_{RMS}
   AWM/STYLE 21918 — 125°C / 300 V_{RMS}
   SUN RES
2) CSA International — C(RU) AWM I/II A/B FT1 — 125°C / 300 V_{RMS}
   SUN RES (Black only)
3) Other — PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED
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) 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 125°C
2) Bend Radius — 10X Cable Diameter
3) Pull Tension — 20.9 Lbs, Maximum
4) Sunlight Resistance — Yes

E. Electrical Properties — (For Engineering purposes only)

1) Voltage Rating — 300 V_{RMS}
2) Capacitance — 18.1 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance — 33 pf/ft @1 kHz, Nominal
4) Inductance — 0.22 µH/ft, Nominal
5) Conductor DCR — 26 Ω/1000ft @20°C, Nominal
6) OA Shield DCR — 4.1 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging — Flange x Traverse x Barrel (inches)

711 Lidgerwood Ave Elizabeth, NJ 07207-0711
Toll Free 1-800-52 ALPHA • T: 1-908-925-8000 • F: 908-925-5411 • Email: info@alphawire.com
www.alphawire.com

a) Bulk(Made-to-order)

2) Notes:
   a) Print legend will contain CSA SUN RES on black cables only.

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