ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45193	**Issue: 15**
Page 1 of 2 Pages	**Issue Date: 1/19/2015**
	Effective Date: 1/31/2015

A. Construction — **Diameters (In)**

1) Component 1 — 3 X 1 COND
   a) Conductor — 22 (7/30) AWG Tinned Copper — 0.030
   b) Insulation — 0.016" Wall, Nom. TPE — 0.062
      (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: — 8.0 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 — 22 (7/30) AWG Tinned Copper
4) Jacket — 0.045" Wall, Nom.,TPE — 0.232 (0.243 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 45193 3C 22 AWG
   XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM
   20237/21918 125C 300 V OR
   CRU AWM I/II A/B 125C 300 V FT1
   P-07-KA140023-MSHA CE ROHS
   (SEQ FOOTAGE)
   * = Factory Code

B. Applicable Specifications

1) UL — AWM/STYLE 20237 — 125°C / 300 V_{RMS}
   PLTC — 105°C
   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 — 22 Lbs, Maximum
4) Sunlight Resistance — Yes

E. Electrical Properties — (For Engineering purposes only)

1) Voltage Rating — 300 V_{RMS}
2) Capacitance — 20.2 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance — 36 pf/ft @1 kHz, Nominal
4) Inductance — 0.2 µH/ft, Nominal
5) Conductor DCR — 16.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR — 11.8 Ω/1000ft @20°C, Nominal

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F. Other

1) Packaging Flange x Traverse x Barrel (inches)
   a) Bulk(Made-to-order)
2) Notes:
   a) Print legend will contain CSA SUN RES on black cables only.

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