ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 45154 Issue: 15

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A. Construction <u>Diameters (In)</u>

1) Component 1 4 X 1 COND

 a) Conductor
 20 (7/28) AWG Tinned Copper
 0.038

 b) Insulation
 0.016" Wall, Nom. TPE
 0.070

(1) Color Code Alpha Wire Color Code D

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	WHITE		
2	RED	4	GREEN		

2) Cable Assembly 4 Components Cabled a) Twists: 6.0 Twists/foot (min)

b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.

B) Shield: A/P/A Tape, 25% Overlap, Min.
a) Drain Wire 20 (7/28) AWG Tinned Copper
b) Braid Tinned Copper,70% Coverage, Min.

4) Jacket 0.045" Wall, Nom., TPE 0.292 (0.304 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 45154 4C 20 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

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

Temperature Range
 Bend Radius
 Pull Tension
 50 to 125°C
 10X Cable Diameter
 48 Lbs, Maximum

4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Capacitance 22.6 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance
 4) Inductance
 41 pf/ft @1 kHz, Nominal
 0.19 μH/ft, Nominal

5) Conductor DCR 10.2 Ω/1000ft @20°C, Nominal 3 Ω/1000ft @20°C, Nominal 3 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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