ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 45162 Issue: 15

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

1) Component 1 2 X 1 COND

a) Conductor 18 (16/30) AWG Tinned Copper 0.047 b) Insulation 0.016" Wall, Nom. TPE 0.079

(1) Color Code Alpha Wire Color Code D

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

Cable Assembly 2 Components Cabled
a) Twists: 6.9 Twists/foot (min)

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

3) Shield: A/P/A Tape, 25% Overlap, Min.
a) Drain Wire 18 (16/30) AWG Tinned Copper
b) Braid Tinned Copper,70% Coverage, Min.

4) Jacket 0.045" Wall, Nom.,TPE 0.280 (0.291 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 45162 2C 18 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 42 Lbs, Maximum

4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Capacitance 29 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 52 pf/ft @1 kHz, Nominal

Characteristic Impedance 55 Ω

5) Inductance 0.18 µH/ft. Nominal

6) Conductor DCR 7.2 Ω/1000ft @20°C, Nominal

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7) OA Shield DCR

2.6 Ω/1000ft @20°C, Nominal

F. Other

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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