ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 45462 Issue: 15

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A. Construction Diameters (In)

1) Component 1 2 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	2	RED		

2) Cable Assembly 2 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 20 (7/28) AWG Tinned Copper

4) Jacket 0.045" Wall, Nom.,TPE 0.238 (0.248 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 45462 2C 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

1) Temperature Range -50 to 125°C
2) Bend Radius 10X Cable Diameter
3) Pull Tension 26 Lbs, Maximum

4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Capacitance 24.7 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 44 pf/ft @1 kHz, Nominal

Characteristic Impedance 65 Ω

5) Inductance 0.19 µH/ft. Nominal

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

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7) OA Shield DCR

8.2 Ω/1000ft @20°C, Nominal

F. Other

) Packaging Flange x Traverse x Barrel (inches)
a) 1000 FT 12 x 12 x 3.5 Continuous length
b) 500 FT 12 x 6 x 3.5 Continuous length

c) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

2) Notes:

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

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