ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45162		**Issue:**	**15**
Page 1 of 2 Pages		**Issue Date:**	**1/19/2015**
		Effective Date:	**1/31/2015**

A. Construction — **Diameters (In)**

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		

2) 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
4) 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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www.alphawire.com

7) OA Shield DCR 2.6 Ω/1000ft @20°C, Nominal

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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