ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45382	**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:	Alum/Mylar Tape, 25% Overlap, Min.	
a)	Foil Direction	Foil Facing In	
b)	Drain Wire	18 (16/30) AWG Tinned Copper	
4)	Jacket	0.045" Wall, Nom.,TPE	0.256 (0.267 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 45382 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	38 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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7) OA Shield DCR 6.1 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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