



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 45482
Page 1 of 2 Pages

Issue: 15
Issue Date: 1/19/2015
Effective Date: 1/31/2015

A. Construction

		<u>Diameters (In)</u>
1) Component 1	2 X 1 PAIR	
a) Conductor	22 (7/30) AWG Tinned Copper	0.030
b) Insulation	0.016" Wall, Nom. TPE	0.062
(1) Color Code	Alpha Wire Color Code B	

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	2	WHITE-BROWN		

- c) Pair: 2/Cond Cabled Together
- (1) Twists: 6.9 Twists/foot (min)
- 2) Cable Assembly: 2 Components Cabled
- a) Twists: 5.3 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: 22 (7/30) AWG Tinned Copper
- 4) Jacket: 0.045" Wall, Nom., TPE 0.301 (0.315 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 45482 2PR 22 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: 27 Lbs, Maximum
- 4) Sunlight Resistance: Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating: 300 V_{RMS}
- 2) Mutual Capacitance: 17.4 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance: 31 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance: 87 Ω

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45482
Page 2 of 2 Pages

Issue: 15
Issue Date: 1/19/2015
Effective Date: 1/31/2015

- 5) Inductance 0.2 μ H/ft, Nominal
- 6) Conductor DCR 16.7 Ω /1000ft @20°C, Nominal
- 7) OA Shield DCR 11.8 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.

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.