

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 518328
Page 1 of 2 Pages

Issue: 1
Issue Date: 1/30/2014
Effective Date: 1/30/2014

--- Preliminary ---

A. Construction

Diameters (In)

- 1) Component 1 2 X 1 PAIR
 - a) Conductor 24 (7/32) AWG Tinned Copper
 - b) Insulation 0.0165" Wall, Nom. FRPP
 - (1) Color Code Alpha Wire Color Code Q

0.024
0.057

Pair	Color	Pair	Color	Pair	Color
1	BLACK-WHITE	2	RED-GREEN		

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 8.0 Twists/foot (min)
- 2) Component 2 3 X 1 PAIR
 - a) Conductor 14 (41/30) AWG Tinned Copper
 - b) Insulation 0.013" Wall, Nom. PVC
 - (1) Color(s)

0.074
0.100

Pair	Color	Pair	Color	Pair	Color
1	BROWN-BLUE	2	ORANGE-YELLOW	3	VIOLET-SLATE

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 4.0 Twists/foot (min)
- 3) Cable Assembly 5 Components Cabled
 - a) Twists: 2.2 Twists/foot (min)
 - b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
 - 4) Shield Tinned Copper BRAID Shield, 95% Coverage, Min.
 - 5) Jacket 0.032" Wall, Nom. TPE
 - a) Color(s) SLATE
 - c) Print ALPHA WIRE-* P/N 518328 2PR 24 AWG 3PR 14 AWG

0.465 (0.483 Max.)

SHIELDED RU AWM 20626 80C 300V OR
C(RU) AWM I/II A/B 75C 300V FT4
CE ROHS (SEQ FOOTAGE)
[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

- 1) UL
 - a) Component 1 AWM/STYLE 10060 80°C / 300 V_{RMS}
 - b) Component 2 AWM/STYLE 1674 105°C / 300 V_{RMS}
 - c) Overall AWM/STYLE 20626 80°C / 300 V_{RMS}
- 2) CSA International C(RU) AWM I/II A/B FT4 75°C / 300 V_{RMS}
- 3) 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) REACH Regulation (EC 1907/2006):
This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.

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. All information contained herein is proprietary. Its use is restricted to Alpha Wire personnel or authorized Distributors and End-Users of Alpha Wire. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 518328
Page 2 of 2 Pages

Issue: 1
Issue Date: 1/30/2014
Effective Date: 1/30/2014

- 3) 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 -20 to 75°C
2) Bend Radius 10X Cable Diameter
3) Pull Tension 223 Lbs, Maximum


E. Electrical Properties (For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
2) Component 1
a) Mutual Capacitance 14.7 pf/ft @1 kHz, Nominal
b) Ground Capacitance 26 pf/ft @1 kHz, Nominal
c) Characteristic Impedance 101 Ω
d) Inductance 0.22 μH/ft, Nominal
e) Conductor DCR 26 Ω/1000ft @20°C, Nominal
3) Component 2
a) Mutual Capacitance 48 pf/ft @1 kHz, Nominal
b) Ground Capacitance 86 pf/ft @1 kHz, Nominal
c) Characteristic Impedance 46 Ω
d) Inductance 0.15 μH/ft, Nominal
e) Conductor DCR 2.8 Ω/1000ft @20°C, Nominal
4) OA Shield DCR 1.48 Ω/1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
a) 1000 FT 24 x 14 x 12 Continuous length
[Spool dimensions may vary slightly]

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By: 	Date: 29 MAR 2014
Company: GE HEALTHCARE	Title: PRINCIPAL ENGINEER

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. All information contained herein is proprietary. Its use is restricted to Alpha Wire personnel or authorized Distributors and End-Users of Alpha Wire. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.