## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 518312 Issue: 1

Page 1 of 2 Pages Issue Date: 8/28/2013 Effective Date: 10/23/2013

A. Construction

Diameters (In)

1) Component 1 36 X 1 COND

a) Conductor b) Insulation

16 (7/.0192) AWG BC

0.016" Wall, Nom. PVC/ 0.005" Wall NYLON

0.058

(1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	13	BLACK #13	25	BLACK #25
2	BLACK #2	14	BLACK #14	26	BLACK #26
3	BLACK #3	15	BLACK #15	27	BLACK #27
4	BLACK #4	16	BLACK #16	28	BLACK #28
5	BLACK #5	17	BLACK #17	29	BLACK #29
6	BLACK #6	18	BLACK #18	30	BLACK #30
7	BLACK #7	19	BLACK #19	31	BLACK #31
3	BLACK #8	20	BLACK #20	32	BLACK #32
€	BLACK #9	21	BLACK #21	33	BLACK #33
10	BLACK #10	22	BLACK #22	34	BLACK #34
11	BLACK #11	23	BLACK #23	35	WHITE #1
12	BLACK #12	24	BLACK #24	36	WHITE #2

2) Cable Assembly

36 Components Cabled

a) Twists:

1.1 Twists/foot (min)

b) Core Wrap

Clear Mylar Tape, 25% Overlap, Min.

3) Jacket

0.083" Wall, Nom., PVC

0.869 (0.912 Max.)

a) Color(s)b) Print

BLACK

Print AI PHA

ALPHA WIRE-\* P/N 518312 36C 16 AWG

EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET

SUN RES DIR BUR CE ROHS

\* = Factory Code

B. Applicable Specifications

1) UL

TC

90°C / 600 V<sub>RMS</sub>

SUN RES

DIRECT BURIAL

2) 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 <u>Alpha's REACH SVHC Declaration</u>.

## D. Physical & Mechanical Properties

1) Temperature Range -25 to 90°C

2) Bend Radius3) Pull Tension10X Cable Diameter730 Lbs, Maximum

4) Sunlight Resistance Yes5) Direct Burial Yes

## E. Electrical Properties (For Engineering purposes only)

Voltage Rating 600 V<sub>RMS</sub>

2) Capacitance 30 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Inductance 0.18 µH/ft, Nominal

4) Conductor DCR 4.2 Ω/1000ft @20°C. Nominal

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: 518312
 Issue: 1

 Page 2 of 2 Pages
 Issue Date: 8/28/2013

 Effective Date: 10/23/2013

F. Other

Packaging Flange x Traverse x Barrel (inches)
 a) Bulk(Made-to-order)

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

Accepted By:	Date:
Matthew SANCHEZ	8/29/13
Company:	Title:
Honeywell	Project 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.