

# Customer Specification

## PART NO. 65104

### Construction

|                     |          |                                                                                                                                                                                                                                                                               |              | Diameters (In) |       |
|---------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|-------|
| 1) Component 1      |          | 4 X 1 COND                                                                                                                                                                                                                                                                    |              |                |       |
| a) Conductor        |          | 10 (105/30) AWG BC                                                                                                                                                                                                                                                            |              | 0.118          |       |
| b) Insulation       |          | 0.022" Wall, Nom. PVC                                                                                                                                                                                                                                                         |              | 0.162          |       |
| (1) Print           |          | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED                                                                                                                                                                                                                         |              |                |       |
| (2) Color(s)        |          |                                                                                                                                                                                                                                                                               |              |                |       |
| Cond                | Color    | Cond                                                                                                                                                                                                                                                                          | Color        | Cond           | Color |
| 1                   | BLACK #1 | 3                                                                                                                                                                                                                                                                             | BLACK #3     |                |       |
| 2                   | BLACK #2 | 4                                                                                                                                                                                                                                                                             | YELLOW/GREEN |                |       |
| 2) Cable Assembly   |          | 4 Components Cabled                                                                                                                                                                                                                                                           |              |                |       |
| a) Twists:          |          | 2.7 Twists/foot (min)                                                                                                                                                                                                                                                         |              |                |       |
| 3) Jacket           |          | 0.084" Wall, Nom.,PVC, Oil Resistant                                                                                                                                                                                                                                          |              | 0.568+/- 0.021 |       |
| a) Color(s)         |          | SLATE                                                                                                                                                                                                                                                                         |              |                |       |
| b) Jacket Separator |          | Tissue Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                |              |                |       |
| c) Print            |          | ALPHA WIRE-* P/N 65104 4C 10 AWG<br>XTRAGUARD(R) FLEXIBLE CONTROL CABLE RU AWM 2587<br>CLASS K --- LLXXXXXX CSA AWM I/II A/B FT1 90C 600V<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |              |                |       |

### Applicable Specifications

|                      |                                     |                             |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL                | AWM/STYLE 2587                      | 90°C / 600 V <sub>RMS</sub> |
| 2) CSA International | AWM I/II A/B                        | 90°C / 600 V <sub>RMS</sub> |
|                      | FT1                                 |                             |
| 3) Other             | VDE 0472, Section 803 Oil Test      |                             |
| 4) CE:               | EU Low Voltage Directive 2006/95/EC |                             |

### Environmental

|                                     |                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) EU Directive 2002/95/EC(RoHS):   |                                                                                                                                                                                                                                                                              |
|                                     | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 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.                                          |
| 3) California Proposition 65:       | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.                                                                                                                                                         |

## Properties

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| Physical & Mechanical Properties |                                                       |
| 1) Temperature Range             | -40 to 90°C(static), -5 to 90°C (dynamic)             |
| 2) Bend Radius                   | 5X Cable Diameter(static), 5X Cable Diameter(dynamic) |
| 3) Pull Tension                  | 330 Lbs, Maximum                                      |
| Electrical Properties            |                                                       |
| (For Engineering purposes only)  |                                                       |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                                  |
| 2) Capacitance                   | 41 pf/ft @1 kHz, Nominal Conductor to Conductor       |
| 3) Inductance                    | 0.15 µH/ft, Nominal                                   |
| 4) Conductor DCR                 | 1.02 /1000ft @20°C, Nominal                           |

## Other

|                  |                                             |
|------------------|---------------------------------------------|
| <b>Packaging</b> | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT       | 30 x 14 x 12 Continuous length              |
| b) 500 FT        | 24 x 14 x 12 Continuous length              |
| c) 100 FT        | 16 x 11 x 8 Continuous length               |
|                  | <i>[Spool dimensions may vary slightly]</i> |

[www.alphawire.com](http://www.alphawire.com)

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742)

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there 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 had 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 | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: [www.alphawire.com](http://www.alphawire.com)

# RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:65104

65104 , RoHS-Compliant Commencing With3/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordancewith Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003,better known as the RoHS Directives, with regards to restrictions of the use of certain hazardousubstances used in the manufacture of electrical and electronic equipment. The reader is referredto these Directives for the specific definitions and extents of these Directives. **No Exemptions arerequired for RoHS Compliance on this item.***

| Substance                             | Maximum Control Value     |
|---------------------------------------|---------------------------|
| Lead                                  | 0.1% by weight (1000 ppm) |
| Mercury                               | 0.1% by weight (1000 ppm) |
| Cadmium                               | 0.01% by weight (100 ppm) |
| Hexavalent Chromium                   | 0.1% by weight (1000 ppm) |
| Polybrominated Biphenyls (PBB)        | 0.1% by weight (1000 ppm) |
| Polybrominated Diphenyl Ethers (PBDE) | 0.1% by weight (1000 ppm) |
| Including Deca-BDE                    | 0.1% by weight (1000 ppm) |

*The information provided in this document and disclosure is correct to the best of Alpha Wire'sknowledge, information and belief at the date of its release. The information provided is designedonly as a general guide for the safe handling, storage, and any other operation of the productitself or the one that it will become part of. The intent of this document is not to be considered awarranty or quality specification. Regulatory information is for guidance purposes only. Productusers are responsible for determining the applicability of legislation and regulations based ontheir individual usage of the product.*

Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

11/1/2012

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Alpha Wire:](#)

[65104 SL005](#)