

# Customer Specification

## PART NO. 85005

### Construction

|                     |        |                                                                                                                                                                                                                                                                                                  |        |                |                    |
|---------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|--------------------|
|                     |        |                                                                                                                                                                                                                                                                                                  |        | Diameters (In) |                    |
| 1) Component 1      |        | 5 X 1 COND                                                                                                                                                                                                                                                                                       |        |                |                    |
| a) Conductor        |        | 20 (63(7x9)/38) AWG BC                                                                                                                                                                                                                                                                           |        | 0.040          |                    |
| b) Insulation       |        | 0.022" Wall, Nom. PVC                                                                                                                                                                                                                                                                            |        | 0.084          |                    |
| (1) Print           |        | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED                                                                                                                                                                                                                                            |        |                |                    |
| (2) Color(s)        |        |                                                                                                                                                                                                                                                                                                  |        |                |                    |
| Cond                | Color  | Cond                                                                                                                                                                                                                                                                                             | Color  | Cond           | Color              |
| 1                   | RED #1 | 3                                                                                                                                                                                                                                                                                                | RED #3 | 5              | YELLOW/GREEN/GREEN |
| 2                   | RED #2 | 4                                                                                                                                                                                                                                                                                                | RED #4 |                |                    |
| 2) Cable Assembly   |        | 5 Components Cabled                                                                                                                                                                                                                                                                              |        |                |                    |
| a) Twists:          |        | 5.3 Twists/foot (min)                                                                                                                                                                                                                                                                            |        |                |                    |
| b) Core Wrap        |        | REMAI Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                    |        |                |                    |
| 3) Jacket           |        | 0.035" Wall, Nom.,PVC, Oil Resistant                                                                                                                                                                                                                                                             |        | 0.323+/- 0.018 |                    |
| a) Color(s)         |        | BLACK                                                                                                                                                                                                                                                                                            |        |                |                    |
| b) Jacket Separator |        | Tissue Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                   |        |                |                    |
| c) Print            |        | ALPHA WIRE-* P/N 85005 5C 20 AWG<br>XTRAGUARD(R) CONTINUOUS FLEX CONTROL CABLE<br>RU AWM 2587 CONSTANT FLEXING --- LLXXXXXX<br>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                |                                     |                             |
| a) Component 1       | AWM/STYLE 10012                     | 90°C / 600 V <sub>RMS</sub> |
| b) Overall           | 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                   | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) Pull Tension                  | 40 Lbs, Maximum                                       |
| Electrical Properties            |                                                       |
| (For Engineering purposes only)  |                                                       |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                                  |
| 2) Capacitance                   | 28 pf/ft @1 kHz, Nominal Conductor to Conductor       |
| 3) Inductance                    | 0.2 µH/ft, Nominal                                    |
| 4) Conductor DCR                 | 10.9 /1000ft @20°C, Nominal                           |

## Other

|                  |                                             |
|------------------|---------------------------------------------|
| <b>Packaging</b> | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT       | 18 x 12 x 8 Continuous length               |
| b) 500 FT        | 12 x 12 x 3.5 Continuous length             |
| c) 100 FT        | 10 x 4 x 3.5 Continuous length              |
|                  | <i>[Spool dimensions may vary slightly]</i> |

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

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
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# RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:85005

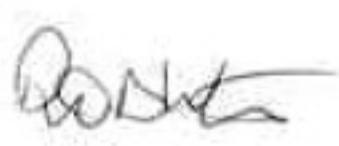
85005 , RoHS-Compliant Commencing With10/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with 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 hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required 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's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.*

Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

11/1/2012

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