



# Customer Specification

## PART NO. 85025

### Construction

|                     |        |  |         |                |                        |
|---------------------|--------|--|---------|----------------|------------------------|
|                     |        | <b>Diameters (In)</b>  |         |                |                        |
| 1) Component 1      |        | 25 X 1 COND  |         |                |                        |
| a) Conductor        |        | 20 (63(7x9)/38) AWG BC   |         |                |                        |
| b) Insulation       |        | 0.022" Wall, Nom. PVC  |         | 0.084          |                        |
| (1) Print           |        | NUMBER ONLY UNDERLINED - ALTERNATE INVERTED<br>REPEAT AT 1 INCH SPACING(CTR. TO CTR.)  |         |                |                        |
| (2) Color(s)        |        |  |         |                |                        |
| Cond                | Color  | Cond   | Color   | Cond           | Color                  |
| 1                   | RED #1 | 10   | RED #10 | 19             | RED #19                |
| 2                   | RED #2 | 11   | RED #11 | 20             | RED #20                |
| 3                   | RED #3 | 12   | RED #12 | 21             | RED #21                |
| 4                   | RED #4 | 13   | RED #13 | 22             | RED #22                |
| 5                   | RED #5 | 14   | RED #14 | 23             | RED #23                |
| 6                   | RED #6 | 15   | RED #15 | 24             | RED #24                |
| 7                   | RED #7 | 16   | RED #16 | 25             | YELLOW/GREEN/GR<br>EEN |
| 8                   | RED #8 | 17   | RED #17 |                |                        |
| 9                   | RED #9 | 18   | RED #18 |                |                        |
| 2) Cable Assembly   |        | 25 Components Cabled   |         |                |                        |
| a) Twists:          |        | 2.3 Twists/foot (min)  |         |                |                        |
| b) Core Wrap        |        | REMA Y Tape, 25% Overlap, Min.   |         |                |                        |
| 3) Jacket           |        | 0.065" Wall, Nom.,PVC, Oil Resistant   |         | 0.691+/- 0.038 |                        |
| a) Color(s)         |        | BLACK  |         |                |                        |
| b) Jacket Separator |        | Tissue Tape, 25% Overlap, Min.   |         |                |                        |
| c) Print            |        | ALPHA WIRE-* P/N 85025 25C 20 AWG<br>XTRAGUARD CONTINUOUS FLEX CONTROL CABLE XTREME<br>PERFORMANCE FOR XTREME ENVIRONMENTS - RU AWM 2587<br>--- LLXXXXXX CSA AWM IA/B IIA/B FT1 90C 600V<br>CE ROHS<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&deg;C / 600 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 2587                    | 90&deg;C / 600 V <sub>RMS</sub> |
| 2) CSA International | AWM I/II A/B                      | 90&deg;C / 600 V <sub>RMS</sub> |
|                      | FT1                               |                                 |
| 3) Other             | VDE 0472, Section 803 Oil Test    |                                 |
| 4) CE:               | LVD 73/23/EEC Amendment 93/68/EEC |                                 |

## 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) 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&deg;C(static), -5 to 90&deg;C (dynamic)     |
| 2) Bend Radius  | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) Pull Tension                                       | 198 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                                      | 11.1 /1000ft @20&deg;C, Nominal                       |

## Other

|              |  |
|--------------|--|
| 1) Packaging |  |
| a) 1000 FT   |  |
| b) 500 FT    |  |
| c) 100 FT    |  |

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:85025

85025 , 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.***

| <b>Substance</b>  | <b>Maximum Control Value</b> |
|---|------------------------------|
| Lead  | 0.1% by weight (1000 ppm)    |
| Mercury   | 0.1% by weight (1000 ppm)    |
| Cadmium   | 0.1% 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)<br>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

1/21/2011