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□□□ **85825**

## Construction

|                     |        |      |         |      |               | Diameters (In)   |                |
|---------------------|--------|------|---------|------|---------------|--|----------------|
| 1) Component 1      |        |      |         |      |               | 25 X 1 COND  |                |
| a) Conductor        |        |      |         |      |               | 18 (105(7x15)/38) AWG Bare Copper  | 0.052          |
| b) Insulation       |        |      |         |      |               | 0.022" Wall, Nom. PVC  | 0.096          |
| (1) Print           |        |      |         |      |               | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED  |                |
| (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, |  |                |
| 8                   | RED #8 | 17   | RED #17 |      |               |  |                |
| 9                   | RED #9 | 18   | RED #18 |      |               |  |                |
| 2) Cable Assembly   |        |      |         |      |               | 25 Components Cabled   |                |
| a) Twists:          |        |      |         |      |               | 2.0 Twists/foot (min)  |                |
| b) Orientation:     |        |      |         |      |               | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER   |                |
| c) Core Wrap        |        |      |         |      |               | REMAI Tape, 25% Overlap, Min.  |                |
| 3) Jacket           |        |      |         |      |               | 0.065" Wall, Nom.,PVC, Oil Resistant   | 0.767+/- 0.039 |
| a) Color(s)         |        |      |         |      |               | BLACK  |                |
| b) Jacket Separator |        |      |         |      |               | Tissue Tape, 25% Overlap, Min.   |                |
| c) Print            |        |      |         |      |               | ALPHA WIRE-* P/N 85825 25C 18 AWG<br>XTRAGUARD(R) CONTINUOUS FLEX CONTROL CABLE<br>RU AWM 2587 CONSTANT FLEXING OR CRU<br>AWM I/II A/B FT1 90C 600V<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                |

## 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 | C(RU) 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 2014/35/EU |                             |
|                      |                                     |                             |

## Environmental

|  |   |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): |   |
|  | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item. |
| 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.  |
| 3) California Proposition 65:  | This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.                                     |
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## 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                  | 330 Lbs, Maximum                                      |
| Electrical Properties            |   |
| (For Engineering purposes only)  |   |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                                  |
| 2) Capacitance                   | 27 pF/ft @1 kHz, Nominal Conductor to Conductor       |
| 3) Inductance                    | 0.19 µH/ft, Nominal                                   |
| 4) Conductor DCR                 | 6.7 Ω/1000ft @20°C, Nominal                           |
|                                  |   |

## Other

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☐ Alpha ☐ RoHS2011/65/EU☐ RoHS2015/863/EU  
RoHS☐ SJ/T 11364-2014

□□□□□□□□0.1% (1000 ppm)

DeBW

