

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 65803**  
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**Issue: 7**  
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**Effective Date: 2/16/2007**

**A. Construction**

**Diameters (In)**

- |                |   |       |
|----------------|---|-------|
| 1) Component 1 | 3 X 1 COND                                  |       |
| a) Conductor   | 18 (16/30) AWG BC                           |       |
| b) Insulation  | 0.022" Wall, Nom. PVC                       | 0.091 |
| (1) Print      | NUMBER ONLY UNDERLINED - ALTERNATE INVERTED |       |
| (2) Color(s)   | REPEAT AT 1 INCH SPACING(CTR. TO CTR.)      |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	2	BLACK #2	3	YELLOW/GREEN

- |                     |  |                |
|---------------------|--|----------------|
| 2) Cable Assembly   | 3 Components Cabled  |                |
| a) Twists:          | 5.3 Twists/foot (min)  |                |
| 3) Jacket           | 0.035" Wall, Nom.,PVC, Oil Resistant   | 0.272+/- 0.015 |
| a) Color(s)         | SLATE  |                |
| b) Jacket Separator | Tissue Tape, 25% Overlap, Min.   |                |
| c) Print            | ALPHA WIRE-* P/N 65803 3C 18 AWG<br>XTRAGUARD FLEXIBLE CONTROL CABLE XTREME<br>PERFORMANCE FOR XTREME ENVIRONMENTS - RU AWM 2587<br>--- LLXXXXXX CSA AWM IIA/B IIA/B FT1 90C 600V<br>CE ROHS <SEQ FOOTAGE><br>* = Factory Code |                |

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

**B. Industry Approvals**

- |                                   |                                |                 |
|-----------------------------------|--------------------------------|-----------------|
| 1) UL                             | AWM/STYLE 2587                 | 90°C / 600 VRMS |
| 2) CSA International              | AWM I/II A/B                   | 90°C / 600 VRMS |
|                                   | FT1                            |                 |
| 3) Other                          | VDE 0472, Section 803 Oil Test |                 |
| 4) 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.

- |                               |  |  |
|-------------------------------|--|--|
| 5) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |  |
| 6) CE:                        | LVD 73/23/EEC Amendment 93/68/EEC  |  |

**C. 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      | 38 Lbs, Maximum                                       |

**D. Electrical Properties**

- |                   |   |
|-------------------|---|
|                   | (For Engineering purposes only)                 |
| 1) Voltage Rating | 600 VRMS  |
| 2) Capacitance    | 30 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                     |

**E. Other**

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

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