

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

Part Number: 810287  
Page 1 of 2 Pages

Issue: 1  
Issue Date: 2/7/2013  
Effective Date: 4/4/2013

### A. Construction

- |                |   |                       |
|----------------|---|-----------------------|
|                |   | <u>Diameters (In)</u> |
| 1) Component 1 | 5 X 1 COND  |                       |
| a) Conductor   | 20 (7/28) AWG TC                                      | 0.038                 |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid                     | 0.058                 |
| (1) Print      | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED |                       |
| (2) Color Code | Alpha Wire Color Code J1                              |                       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	3	BLUE #3	5	YELLOW #5
2	RED #2	4	ORANGE #4		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 5 Components Cabled  |                    |
| a) Twists:        | 6.9 Twists/foot (min)  |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.   |                    |
| 3) Jacket         | 0.063" Wall, Nom. PVC  | 0.288 (0.302 Max.) |
| a) Color(s)       | SLATE  |                    |
| b) Ripcord        | 1 End 810 Denier Nylon   |                    |
| c) Print          | ALPHA WIRE-* P/N 810287 5C 20 AWG<br>SOLENOID EATON (UL) TYPE CM 105C OR AWM 2343 VW-1<br>-- LLXXXXXX CSA 105C TYPE CMG FT4<br>ROHS (SEQ FOOTAGE)<br>-* = Factory Code | OK                 |
- (Note: Product may have a(UL) or CSA markings depending upon plant of manufacture.)*

### B. Applicable Specifications

- |                      |                |                                     |                              |
|----------------------|----------------|-------------------------------------|------------------------------|
| 1) UL                | a) Component 1 | AWM/STYLE 10002                     | 105°C / 300 V <sub>RMS</sub> |
|                      | b) Overall     | VW-1                                |                              |
|                      |                | AWM/STYLE 2343                      | 80°C                         |
|                      |                | CM                                  | 105°C                        |
| 2) CSA International |                | FT4                                 |                              |
|                      |                | CMG                                 | 105°C                        |
| 3) CE:               |                | EU Low Voltage Directive 2006/95/EC |                              |

### C. Environmental Compliance

- |                                     |   |
|-------------------------------------|---|
| 1) CE:                              | EU Directive 2011/65/EU (RoHS2):<br>This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C. |
| 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.  |

### D. Physical & Mechanical Properties

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -30 to 105°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 44 Lbs. Maximum    |
| 4) Sunlight Resistance | Yes                |

### E. Electrical Properties

- |                                 |  |
|---------------------------------|--|
| (For Engineering purposes only) |  |
| 1) Voltage Rating               | 300 V <sub>RMS</sub>                             |
| 2) Capacitance                  | 25 pF/ft @ 1 kHz, Nominal Conductor to Conductor |
| 3) Inductance                   | 0.17 µH/ft. Nominal                              |
| 4) Conductor DCR                | 10.3 Ω/1000ft @ 20°C, Nominal                    |

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Page 2 of 2 Pages

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F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)  
a) Bulk(Made-to-order)
- 2) Notes:  
a) Same as 5220C except color code J1.

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By: 	Date: 2-11-13
Company: NEWTECH 3	Title: Buyer

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