

# Customer Specification

## PART NO. M3861

### Construction

|                   |              | Diameters (In)  |               |                    |               |
|-------------------|--------------|---|---------------|--------------------|---------------|
| 1) Component 1    |              | 37 X 1 COND   |               |                    |               |
| a) Conductor      |              | 14 (7/.0242) AWG BC   |               | 0.073              |               |
| b) Insulation     |              | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON  |               | 0.115              |               |
| (1) Color Code    |              | Alpha Wire Color Code J   |               |                    |               |
| Cond              | Color        | Cond  | Color         | Cond               | Color         |
| 1                 | BLACK        | 14  | ORANGE/RED    | 27                 | BLACK/YELLOW  |
| 2                 | RED          | 15  | YELLOW/RED    | 28                 | RED/YELLOW    |
| 3                 | BLUE         | 16  | BROWN/RED     | 29                 | BLUE/YELLOW   |
| 4                 | ORANGE       | 17  | BLACK/BLUE    | 30                 | ORANGE/YELLOW |
| 5                 | YELLOW       | 18  | RED/BLUE      | 31                 | BROWN/YELLOW  |
| 6                 | BROWN        | 19  | ORANGE/BLUE   | 32                 | BLACK/BROWN   |
| 7                 | RED/BLACK    | 20  | YELLOW/BLUE   | 33                 | RED/BROWN     |
| 8                 | BLUE/BLACK   | 21  | BROWN/BLUE    | 34                 | BLUE/BROWN    |
| 9                 | ORANGE/BLACK | 22  | BLACK/ORANGE  | 35                 | ORANGE/BROWN  |
| 10                | YELLOW/BLACK | 23  | RED/ORANGE    | 36                 | YELLOW/BROWN  |
| 11                | BROWN/BLACK  | 24  | BLUE/ORANGE   | 37                 | BLACK         |
| 12                | BLACK/RED    | 25  | YELLOW/ORANGE |                    |               |
| 13                | BLUE/RED     | 26  | BROWN/ORANGE  |                    |               |
| 2) Cable Assembly |              | 37 Components Cabled  |               |                    |               |
| a) Twists:        |              | 1.0 Twists/foot (min)   |               |                    |               |
| b) Core Wrap      |              | Clear Mylar Tape, 25% Overlap, Min.   |               |                    |               |
| 3) Jacket         |              | 0.083" Wall, Nom.,PVC   |               | 0.974 (1.018 Max.) |               |
| a) Color(s)       |              | BLACK   |               |                    |               |
| b) Print          |              | ALPHA WIRE-* P/N M3861 37C 14 AWG<br>EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET<br>SUN RES DIR BUR CE ROHS<br>* = Factory Code |               |                    |               |

### Applicable Specifications

|        |                                     |                             |
|--------|-------------------------------------|-----------------------------|
| 1) UL  | TC                                  | 90°C / 600 V <sub>RMS</sub> |
|        | SUN RES                             |                             |
|        | DIRECT BURIAL                       |                             |
| 2) CE: | EU Low Voltage Directive 2006/95/EC |                             |

## Environmental

|  |   |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2): |   |
|  | 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.  |

## Properties

|                                  |   |
|----------------------------------|---|
| Physical & Mechanical Properties |   |
| 1) Temperature Range             | -25 to 90°C                                     |
| 2) Bend Radius                   | 10X Cable Diameter                              |
| 3) Pull Tension                  | 1192 Lbs, Maximum                               |
| 4) Sunlight Resistance           | Yes   |
| 5) Direct Burial                 | Yes   |
| Electrical Properties            |   |
| (For Engineering purposes only)  |   |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                            |
| 2) Capacitance                   | 32 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance                    | 0.17 µH/ft, Nominal                             |
| 4) Conductor DCR                 | 2.6 Ω/1000ft @20°C, Nominal                     |

## Other

|                        |   |
|------------------------|---|
| <b>Packaging</b>       | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT             | 48 x 26 x 18 Continuous length              |
| b) 500 FT              | 36 x 14 x 12 Continuous length              |
| c) 100 FT              | 24 x 14 x 12 Continuous length              |
| d) Bulk(Made-to-order) |   |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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