

# Customer Specification

## PART NO. M3858

### Construction

|                   |           |                                                                                                                               |              |                    |             |
|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|-------------|
|                   |           |                                                                                                                               |              | Diameters (In)     |             |
| 1) Component 1    |           | 19 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     | 8                                                                                                                             | BLUE/BLACK   | 15                 | YELLOW/RED  |
| 2                 | RED       | 9                                                                                                                             | ORANGE/BLACK | 16                 | BROWN/RED   |
| 3                 | BLUE      | 10                                                                                                                            | YELLOW/BLACK | 17                 | BLACK/BLUE  |
| 4                 | ORANGE    | 11                                                                                                                            | BROWN/BLACK  | 18                 | RED/BLUE    |
| 5                 | YELLOW    | 12                                                                                                                            | BLACK/RED    | 19                 | ORANGE/BLUE |
| 6                 | BROWN     | 13                                                                                                                            | BLUE/RED     |                    |             |
| 7                 | RED/BLACK | 14                                                                                                                            | ORANGE/RED   |                    |             |
| 2) Cable Assembly |           | 19 Components Cabled                                                                                                          |              |                    |             |
| a) Twists:        |           | 1.4 Twists/foot (min)                                                                                                         |              |                    |             |
| b) Core Wrap      |           | Clear Mylar Tape, 25% Overlap, Min.                                                                                           |              |                    |             |
| 3) Jacket         |           | 0.063" Wall, Nom.,PVC                                                                                                         |              | 0.705 (0.738 Max.) |             |
| a) Color(s)       |           | BLACK                                                                                                                         |              |                    |             |
| b) Print          |           | ALPHA WIRE-* P/N M3858 19C 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                  | 612 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             | 36 x 14 x 12 Continuous length              |
| b) 500 FT              | 30 x 14 x 12 Continuous length              |
| c) 100 FT              | 16 x 11 x 8 Continuous length               |
| d) Bulk(Made-to-order) |                                             |
|                        | <i>[Spool dimensions may vary slightly]</i> |

[www.alphawire.com](http://www.alphawire.com)

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742)

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

#### ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY

Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2013 ALPHA WIRE - all rights reserved.