

# Customer Specification

## PART NO. M3879

### Construction

|                   |           |                                                                                                                               |              |                    |             |
|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|-------------|
|                   |           |                                                                                                                               |              | Diameters (In)     |             |
| 1) Component 1    |           | 19 X 1 COND                                                                                                                   |              |                    |             |
| a) Conductor      |           | 12 (7/.0305) AWG BC                                                                                                           |              | 0.092              |             |
| b) Insulation     |           | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON                                                                                      |              | 0.134              |             |
| (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:        |           | 1.2 Twists/foot (min)                                                                                                         |              |                    |             |
| b) Core Wrap      |           | Clear Mylar Tape, 25% Overlap, Min.                                                                                           |              |                    |             |
| 3) Jacket         |           | 0.063" Wall, Nom.,PVC                                                                                                         |              | 0.800 (0.834 Max.) |             |
| a) Color(s)       |           | BLACK                                                                                                                         |              |                    |             |
| b) Print          |           | ALPHA WIRE-* P/N M3879 19C 12 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                  | 971 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                   | 34 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance                    | 0.16 µH/ft, Nominal                             |
| 4) Conductor DCR                 | 1.64 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              | 24 x 14 x 12 Continuous length              |
| d) Bulk(Made-to-order) |                                             |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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