

# Customer Specification

## PART NO. M3449

### Construction

|                   |                                | Diameters (In)  |                              |                    |                              |
|-------------------|--------------------------------|---|------------------------------|--------------------|------------------------------|
| 1) Component 1    |                                | 5 X 1 PAIR  |                              |                    |                              |
| a) Conductor      |                                | 24 (7/32) AWG TC  |                              | 0.024              |                              |
| b) Insulation     |                                | 0.010" Wall, Nom. PVC, Semi Rigid   |                              | 0.044              |                              |
| (1) Color Code    |                                | Alpha Wire Color Code M   |                              |                    |                              |
| Pair              | Color                          | Pair  | Color                        | Pair               | Color                        |
| 1                 | BLUE/WHITE -<br>WHITE/BLUE     | 3   | GREEN/WHITE -<br>WHITE/GREEN | 5                  | SLATE/WHITE -<br>WHITE/SLATE |
| 2                 | ORANGE/WHITE -<br>WHITE/ORANGE | 4   | BROWN/WHITE -<br>WHITE/BROWN |                    |                              |
| c) Pair           |                                | 2/Cond Cabled Together  |                              |                    |                              |
| (1) Twists:       |                                | 9.6 Twists/foot (min)   |                              |                    |                              |
| 2) Cable Assembly |                                | 5 Components Cabled   |                              |                    |                              |
| a) Twists:        |                                | 4.4 Twists/foot (min)   |                              |                    |                              |
| 3) Shield:        |                                | Alum/Mylar Tape, 25% Overlap, Min.  |                              |                    |                              |
| a) Foil Direction |                                | Foil Facing Out   |                              |                    |                              |
| b) Drain Wire     |                                | 24 (7/32) AWG TC  |                              |                    |                              |
| c) Braid          |                                | TC,65% Coverage, Min.   |                              |                    |                              |
| 4) Jacket         |                                | 0.032" Wall, Nom.,PVC   |                              | 0.286 (0.302 Max.) |                              |
| a) Color(s)       |                                | SLATE   |                              |                    |                              |
| b) Ripcord        |                                | 1 End 810 Denier Nylon  |                              |                    |                              |
| c) Print          |                                | ALPHA WIRE-* P/N M3449 5PR 24 AWG<br>SHIELDED 75C CMG (UL) C(UL) OR<br>AWM 2464 CE ROHS<br>* = Factory Code<br><i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> |                              |                    |                              |

### Applicable Specifications

|                      |                                     |                             |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL                | AWM/STYLE 2464                      | 80°C / 300 V <sub>RMS</sub> |
|                      | CMG                                 | 75°C                        |
| 2) CSA International | FT4                                 |                             |
|                      | C(UL) TYPE CMG                      | 75°C                        |
| 3) 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                                  | -20 to 80°C                |
| 2) Bend Radius  | 10X Cable Diameter         |
| 3) Pull Tension                                       | 43 Lbs, Maximum            |
| Electrical Properties (For Engineering purposes only) |                            |
| 1) Voltage Rating                                     | 300 V <sub>RMS</sub>       |
| 2) Mutual Capacitance                                 | 25 pf/ft @1 kHz, Nominal   |
| 3) Ground Capacitance                                 | 45 pf/ft @1 kHz, Nominal   |
| 4) Characteristic Impedance                           | 76 Ω                       |
| 5) Inductance   | 0.19 μH/ft, Nominal        |
| 6) Conductor DCR                                      | 26 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR                                      | 4 Ω/1000ft @20°C, Nominal  |

## Other

|                        |   |
|------------------------|---|
| <b>Packaging</b>       | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT             | 16 x 11 x 8 Continuous length               |
| b) 500 FT              | 12 x 10 x 5 Continuous length               |
| c) 100 FT              | 12 x 4.5 x 3.5 Continuous length            |
| d) Bulk(Made-to-order) |   |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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