

# Customer Specification

## PART NO. 77145

### Construction

|                   |       |      |        |      |       | Diameters (In)  |  |                    |
|-------------------|-------|------|--------|------|-------|---|--|--------------------|
| 1) Component 1    |       |      |        |      |       | 7 X 1 COND  |  |                    |
| a) Conductor      |       |      |        |      |       | 14 (41/30) AWG Tinned Copper  |  | 0.070              |
| b) Insulation     |       |      |        |      |       | 0.013" Wall, Nom. MPPE  |  | 0.096              |
| (1) Color Code    |       |      |        |      |       | Alpha Wire Color Code E   |  |                    |
| Cond              | Color | Cond | Color  | Cond | Color |   |  |                    |
| 1                 | BLACK | 4    | ORANGE | 7    | BLUE  |   |  |                    |
| 2                 | BROWN | 5    | YELLOW |      |       |   |  |                    |
| 3                 | RED   | 6    | GREEN  |      |       |   |  |                    |
| 2) Cable Assembly |       |      |        |      |       | 7 Components Cabled   |  |                    |
| a) Twists:        |       |      |        |      |       | 3.7 Twists/foot (min)   |  |                    |
| b) Orientation:   |       |      |        |      |       | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER  |  |                    |
| c) Core Wrap      |       |      |        |      |       | Nonwoven Polyester Tape, 25% Overlap, Min.  |  |                    |
| 3) Shield:        |       |      |        |      |       | Alum/Mylar Tape, 25% Overlap, Min.  |  |                    |
| a) Foil Direction |       |      |        |      |       | Foil Facing In  |  |                    |
| b) Drain Wire     |       |      |        |      |       | 16 (19/.0117) AWG Tinned Copper   |  |                    |
| 4) Jacket         |       |      |        |      |       | 0.032" Wall, Nom.,MPPE  |  | 0.362 (0.376 Max.) |
| a) Color(s)       |       |      |        |      |       | SLATE   |  |                    |
| b) Ripcord        |       |      |        |      |       | 1 End 810 Denier Nylon  |  |                    |
| c) Print          |       |      |        |      |       | ALPHA WIRE-* P/N 77145 7C 14 AWG<br>ECOCABLE(R) RU AWM 21915 105C 600V<br>C(RU) AWM I/II A/B FT2 600V 105C<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |  |                    |

### Applicable Specifications

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|                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 11231                     | 105°C / 600 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 21915                     | 105°C / 600 V <sub>RMS</sub> |
|                      | Horizontal Flame                    |                              |
| 2) CSA International | C(RU) AWM I/II A/B FT2              | 105°C / 600 V <sub>RMS</sub> |
| 3) Other             | Halogen-Free                        |                              |
|                      | NFPA 79 - 2015 Compliant            |                              |
| 4) CE:               | EU Low Voltage Directive 2014/35/EU |                              |

## Environmental

|  |   |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): |   |
|  | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item. |
| 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.  |
| 3) California Proposition 65:  |   |
|  | This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.                                     |

## Properties

| <b>Physical &amp; Mechanical Properties</b> |   |
|---|---|
| 1) Temperature Range                        | -50 to 105°C                                    |
| 2) Bend Radius                              | 6X Cable Diameter                               |
| 3) Pull Tension                             | 246 Lbs, Maximum                                |
| <b>Electrical Properties</b>                |   |
| (For Engineering purposes only)             |   |
| 1) Voltage Rating                           | 600 V <sub>RMS</sub>                            |
| 2) Capacitance                              | 34 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance                       | 61 pF/ft @1 kHz, Nominal                        |
| 4) Inductance                               | 0.15 µH/ft, Nominal                             |
| 5) Conductor DCR                            | 2.8 Ω/1000ft @20°C, Nominal                     |
| 6) OA Shield DCR                            | 3.8 Ω/1000ft @20°C, Nominal                     |

## Other

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| <b>Packaging</b> | Flange x Traverse x Barrel (inches)         |
|------------------|---|
| a) 1000 FT       | 18 x 14.25 x 8 Continuous length            |
| b) 100 FT        | 12 x 5.94 x 5 Continuous length             |
|                  | <i>[Spool dimensions may vary slightly]</i> |
|                  |   |

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

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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