

# **Customer Specification**

## PART NO. 902007

### Construction

|                   |             |      |         |      |         | Diameters (In)   |                |
|-------------------|-------------|------|---------|------|---------|--|----------------|
| 1) Component 1    |             |      |         |      |         | 7 X 1 COND   |                |
| a) Conductor      |             |      |         |      |         | 20 (10/30) AWG Bare Copper   | 0.037          |
| b) Insu           | lation      |      |         |      |         | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON   | 0.079          |
| (1) Print         |             |      |         |      |         | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND   |                |
| (2) Col           | or Code     |      |         |      |         | Alpha Wire Color Code KX   |                |
| Cond              | Color       | Cond | Color   | Cond | Color   |  |                |
| 1                 | GREEN/YELLO | 4    | BLACK#3 | 7    | BLACK#6 |  |                |
| 2                 | BLACK#1     | 5    | BLACK#4 |      |         |  |                |
| 3                 | BLACK#2     | 6    | BLACK#5 |      |         |  |                |
| 2) Cable Assembly |             |      |         |      |         | 7 Components Cabled  |                |
| a) Twists:        |             |      |         |      |         | 3.7 Twists/foot (min)  |                |
| b) Orientation:   |             |      |         |      |         | Components to be arranged from OUTSIDE LAYER to INSIDE LAYER   |                |
| c) Core Wrap      |             |      |         |      |         | REMAY Tape, 25% Overlap, Min.  |                |
| 3) Jacket         |             |      |         |      |         | 0.045" Wall, Nom.,TPE  | 0.343+/- 0.019 |
| a) Color(s)       |             |      |         |      |         | SLATE  |                |
| b) Print          |             |      |         |      |         | ALPHA WIRE-* P/N 902007 7C 20 AWG (0.507mm2)<br>(UL) TYPE PLTC 90C OIL RES I/II SUN RES<br>OR RU AWM STYLE 20626 90C 600V<br>OR CRU AWM I/II A/B 90C 600V FT4<br>CE ROHS (DATE CODE) (SEQ FOOTAGE)<br>* = Factory Code |                |

### **Applicable Specifications**

| 1) UL                |                                     |                             |
|----------------------|-------------------------------------|-----------------------------|
| a) Component 1       | AWM/STYLE 1316                      | 90°C / 600 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 20626                     | 90°C / 600 V <sub>RMS</sub> |
|                      | SUN RES                             |                             |
|                      | OIL RES I/II                        |                             |
|                      | PLTC                                | 90°C                        |
| 2) CSA International | C(RU) AWM I/II A/B                  | 90°C / 600 V <sub>RMS</sub> |
|                      | FT4                                 |                             |
| 3) Other             | Conductors ASTM Class K             |                             |
| 4) CE:               | EU Low Voltage Directive 2014/35/EU |                             |

## Environmental

| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU<br>(RoHS3): |  |  |
|---|--|--|
|   | This product complies with European Directive 2011/65/EU (RoHS<br>Directive) of the European Parliament and of the Council of 8 June<br>2011 and the amending Directive 2015/863/EU of 4 June 2015 . No<br>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<br>(SVHC) listed on the European Union's REACH candidate list in<br>excess of 0.1% mass of the item.   |  |
| 3) California Proposition 65:   | This product may contain substances known to the State of<br>California to cause Cancer or Reproductive Harm, but is exempt<br>from labeling based on the Consent Judgement. See the Alpha<br>Wire website for more information.                                     |  |

# Properties

| Physical & Mechanical Properties |   |  |  |  |
|----------------------------------|---|--|--|--|
| 1) Temperature Range             | -30 to 90°C(static), -5 to 90°C (dynamic)             |  |  |  |
| 2) Bend Radius                   | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |  |  |  |
| 3) Pull Tension                  | 55 Lbs, Maximum                                       |  |  |  |
| 4) Sunlight Resistance           | Yes   |  |  |  |
| Electrical Properties            | (For Engineering purposes only)                       |  |  |  |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                                  |  |  |  |
| 2) Capacitance                   | 23.6 pF/ft @1 kHz, Nominal Conductor to Conductor     |  |  |  |
| 3) Inductance                    | 0.21 μH/ft, Nominal                                   |  |  |  |
| 4) Conductor DCR                 | 10.7 Ω/1000ft @20°C, Nominal                          |  |  |  |
|                                  |   |  |  |  |

| Flange x Traverse x Barrel (inches)  |
|--------------------------------------|
| 18 x 14.25 x 8 Continuous length     |
| 12 x 5.94 x 5 Continuous length      |
| [Spool dimensions may vary slightly] |
|                                      |
|                                      |
|                                      |

#### www.alphawire.com

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# **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 902007

902007, RoHS-Compliant Commencing With 01/01/0001 Production

#### Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

| Substance                               | Maximum Control Value      |
|---|----------------------------|
| Lead                                    | 0.1% by weight (1000 ppm)  |
| Mercury                                 | 0.1% by weight (1000 ppm)  |
| Cadmium                                 | 0.01% by weight (100 ppm)  |
| Hexavalent Chromium                     | 0.1% by weight (1000 ppm ) |
| Polybrominated Biphenyls (PBB)          | 0.1% by weight (1000 ppm)  |
| Polybrominated Diphenyl Ethers (PBDE) , |                            |
| Including Deca-BDE                      | 0.1% by weight (1000 ppm)  |
| Bis(2-ethylhexyl) phthalate (DEHP)      | 0.1% by weight (1000 ppm)  |
| Butyl benzyl phthalate (BBP)            | 0.1% by weight (1000 ppm)  |
| Dibutyl phthalate (DBP)                 | 0.1% by weight (1000 ppm)  |
| Diisobutyl phthalate (DIBP)             | 0.1% by weight (1000 ppm)  |

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the d guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

Q AI to

Dave Watson, Director of Engineering & QA 31/03/2025

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