

## Customer Specification

### PART NO. 6039C

### Construction

|                       |             |      |              |      |              | Diameters (In)   |                    |
|-----------------------|-------------|------|--------------|------|--------------|--|--------------------|
| 1) Component 1        |             |      |              |      |              | 9 X 1 PAIR   |                    |
| a) Conductor          |             |      |              |      |              | 20 (7/28) AWG Tinned Copper  | 0.038              |
| b) Insulation         |             |      |              |      |              | 0.013" Wall, Nom. Polypropylene(PP)  | 0.064              |
| (1) Color Code        |             |      |              |      |              | Alpha Wire Color Code A  |                    |
| Pair                  | Color       | Pair | Color        | Pair | Color        |  |                    |
| 1                     | BLACK-RED   | 4    | BLACK-BLUE   | 7    | BLACK-ORANGE |  |                    |
| 2                     | BLACK-WHITE | 5    | BLACK-BROWN  | 8    | RED-GREEN    |  |                    |
| 3                     | BLACK-GREEN | 6    | BLACK-YELLOW | 9    | RED-WHITE    |  |                    |
| c) Pair               |             |      |              |      |              | 2/Cond Cabled Together   |                    |
| (1) Twists:           |             |      |              |      |              | 6.9 Twists/foot (min)  |                    |
| Individually Applied: |             |      |              |      |              |  |                    |
| d) Shield:            |             |      |              |      |              | Foil Free Alum/Mylar Tape, 25% Overlap, Min.   |                    |
| (1) Foil Direction    |             |      |              |      |              | Foil Facing In   |                    |
| (2) Drain Wire        |             |      |              |      |              | 22 (7/30) AWG Tinned Copper  |                    |
| 2) Cable Assembly     |             |      |              |      |              | 9 Components Cabled  |                    |
| a) Twists:            |             |      |              |      |              | 1.9 Twists/foot (min)  |                    |
| b) Orientation:       |             |      |              |      |              | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER   |                    |
| c) Core Wrap          |             |      |              |      |              | Clear Mylar Tape, 25% Overlap, Min.  |                    |
| 3) Jacket             |             |      |              |      |              | 0.073" Wall, Nom.,PVC  | 0.575 (0.599 Max.) |
| a) Color(s)           |             |      |              |      |              | SLATE  |                    |
| b) Print              |             |      |              |      |              | ALPHA WIRE-* P/N 6039C 9PR 20 AWG<br>EXXXXX SHIELDED 75C (UL) C(UL) CMG FT4 OR AWM<br>2493 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 2493                      | 60°C |
|                      | CMG                                 | 75°C |
|                      | VW-1                                |      |
| 2) CSA International | C(UL) TYPE CMG                      | 75°C |
|                      | FT4                                 |      |
| 3) 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) 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                        | -20 to 75°C                  |
| 2) Bend Radius                              | 10X Cable Diameter           |
| 3) Pull Tension                             | 207 Lbs, Maximum             |
| <b>Electrical Properties</b>                |                              |
| (For Engineering purposes only)             |                              |
| 1) Voltage Rating                           | 300 V <sub>RMS</sub>         |
| 2) Characteristic Impedance                 | 61 Ω                         |
| 3) Inductance                               | 0.18 μH/ft, Nominal          |
| 4) Mutual Capacitance                       | 25 pF/ft @1 kHz, Nominal     |
| 5) Ground Capacitance                       | 45 pF/ft @1 kHz, Nominal     |
| 6) Conductor DCR                            | 10.3 Ω/1000ft @20°C, Nominal |
| 7) Ind. Shield DC Resistance                | 13.8 Ω/1000ft @20°C, Nominal |

## Other

|  |
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| <b>Packaging</b> | <b>Flange x Traverse x Barrel (inches)</b>  |
|------------------|---|
| a) 1000 FT       | 30 x 14 x 12 Continuous length              |
| b) 500 FT        | 18 x 14.25 x 8 Continuous length            |
| c) 100 FT        | 18 x 9 x 8 Continuous length                |
|                  | <i>[Spool dimensions may vary slightly]</i> |
|                  |   |

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

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6039C

6039C, RoHS-Compliant Commencing With 11/1/2004 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

**Substance**

- Lead
- Mercury
- Cadmium
- Hexavalent Chromium
- Polybrominated Biphenyls (PBB)
- Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE
- Bis(2-ethylhexyl) phthalate (DEHP)
- Butyl benzyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

**Maximum Control Value**

- 0.1% by weight (1000 ppm)
- 0.1% by weight (1000 ppm)
- 0.01% by weight (100 ppm)
- 0.1% by weight (1000 ppm)
- 0.1% by weight (1000 ppm)
- 0.1% by weight (1000 ppm)
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The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general 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 document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 7/2/2026

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