chanhvinh.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification

# PART NO. 1896C

## Construction

| | | | | | |
|---|---|---|---|---|---|
| | | | | **Diameters (In)** | |
| 1) Component 1 | | 3 X 1 COND | | | |
| a) Conductor | | 20 (7/28) AWG TC | | 0.038 | |
| b) Insulation | | 0.016" Wall, Nom. PVC | | 0.070 | |
| (1) Color Code | | Alpha Wire Color Code D | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 2 | RED | 3 | WHITE |
| 2) Cable Assembly | | 3 Components Cabled | | | |
| a) Twists: | | 5.3 Twists/foot (min) | | | |
| 3) Jacket | | 0.020" Wall, Nom.,PVC | | 0.191 (0.201 Max.) | |
| a) Color(s) | | Slate, Black | | | |
| b) Print | | ALPHA WIRE-* P/N 1896C 3C 20 AWG<br>(UL) 75C TYPE CM OR AWM 2509 --- LLXXXXXX<br>CSA TYPE CMG FT4 CE ROHS<br>* = Factory Code<br>*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]* | | | |

## Applicable Specifications

| | | |
|---|---|---|
| 1) UL | AWM/STYLE 2509 | 80°C / 300 $V_{RMS}$ |
| | CM | 75°C |
| | VW-1 | |
| 2) CSA International | CMG | 60°C |
| | FT4 | |
| 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. |

chanhvinh.com

## Properties

| Physical & Mechanical Properties | |
|---|---|
| 1) Temperature Range | -20 to 80°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 26 Lbs, Maximum |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 $V_{RMS}$ |
| 2) Capacitance | 30 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance | 0.19 µH/ft, Nominal |
| 4) Conductor DCR | 10.2 Ω/1000ft @20°C, Nominal |

## Other

| **Packaging** | Flange x Traverse x Barrel (inches) |
|---|---|
| a) 1000 FT | 12 x 10 x 5 Continuous length |
| b) 500 FT | 12 x 4.5 x 3.5 Continuous length |
| c) 100 FT | 6.5 x 4 x 2.5 Continuous length |
| | *[Spool dimensions may vary slightly]* |
| **Notes:** | |
| a) Black Jackets are available by special order only. | |

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742)

Although Alpha Wire (“Alpha”) makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an “AS IS” basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY
Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2013 ALPHA WIRE - all rights reserved.

chanhvinh.com

# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 1896C

1896C , RoHS-Compliant Commencing With 8/1/2005 Production

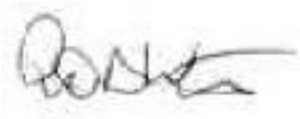
Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European 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) 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.

| **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 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 & QA — 5/21/2019

Alpha Wire
711 Lidgerwood Ave.
Elizabeth, NJ 07207
Tel: 1-908-925-8000