

## Customer Specification

### PART NO. 1896/12C

### Construction

|                   |       |      |        |      |        | Diameter ("in")   |                    |
|-------------------|-------|------|--------|------|--------|---|--------------------|
| 1) Component 1    |       |      |        |      |        | 12 x 1 COND   |                    |
| a) Conductor      |       |      |        |      |        | 20 (7/28) AWG Tinned Copper   | 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 | 5    | ORANGE | 9    | VIOLET |   |                    |
| 2                 | RED   | 6    | BLUE   | 10   | SLATE  |   |                    |
| 3                 | WHITE | 7    | BROWN  | 11   | PINK   |   |                    |
| 4                 | GREEN | 8    | YELLOW | 12   | TAN    |   |                    |
| 2) Cable Assembly |       |      |        |      |        | 12 Components Cabled  |                    |
| a) Twists         |       |      |        |      |        | 2.8 Twists/foot (min.)  |                    |
| b) Orientation    |       |      |        |      |        | Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER  |                    |
| 3) Jacket         |       |      |        |      |        | 0.020" Wall, Nom. PVC   | 0.331 (0.347 max.) |
| a) Color(s)       |       |      |        |      |        | SLATE   |                    |
| b) Print          |       |      |        |      |        | ALPHA WIRE-* P/N 1896/12C 12C 20 AWG<br>(UL) 75C TYPE CM OR AWM 2509 OR C(UL) 60C TYPE CMG<br>FT4 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 2509                      | 80°C / 300 V <sub>RMS</sub> |
|                      | CM                                  | 75°C                        |
|                      | VW-1                                |                             |
| 2) CSA International | CMG                                 | 60°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) 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 detail.  |

## Properties

| <b>Physical &amp; Mechanical Properties</b> |   |
|---|---|
| 1) Temperature Range                        | -20 to 80°C                                     |
| 2) Bend Radius                              | 10X Cable Diameter                              |
| 3) Pull Tension                             | 105 lbs. max.                                   |
| <b>Electrical Properties</b>                |   |
| <i>(For Engineering purposes only)</i>      |   |
| 1) Voltage Rating                           | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                              | 27 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

| <b>Packaging</b> | Flange x Traverse x Barrel (inches)        |
|------------------|--|
| a) 1000 FT       | 18 x 14.25 x 8 Continuous Length           |
| b) 500 FT        | 12 x 10.5 x 5 Continuous Length            |
| c) 100 FT        | 10.5 x 5 x 3.5 Continuous Length           |
|                  | <i>Spool dimensions may vary slightly.</i> |

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

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