

# Customer Specification

## PART NO. 5936

### Construction

|                   |       |                                                                                                                                                                                                                                                                                                                            |        | Diameters (In)     |       |
|-------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|-------|
| 1) Component 1    |       | 7 X 1 COND                                                                                                                                                                                                                                                                                                                 |        |                    |       |
| a) Conductor      |       | 28 (7/36) AWG Tinned Copper                                                                                                                                                                                                                                                                                                |        | 0.015              |       |
| b) Insulation     |       | 0.010" Wall, Nom. PVC, Semi Rigid                                                                                                                                                                                                                                                                                          |        | 0.035              |       |
| (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:        |       | 9.6 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:        |       | A/P/A Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                                              |        |                    |       |
| a) Drain Wire     |       | 28 (7/36) AWG Tinned Copper                                                                                                                                                                                                                                                                                                |        |                    |       |
| b) Braid          |       | Tinned Copper,70% Coverage, Min.                                                                                                                                                                                                                                                                                           |        |                    |       |
| 4) Jacket         |       | 0.032" Wall, Nom.,PVC                                                                                                                                                                                                                                                                                                      |        | 0.202 (0.214 Max.) |       |
| a) Color(s)       |       | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White                                                                                                                                                                                                                                                          |        |                    |       |
| b) Ripcord        |       | 1 End 810 Denier Nylon                                                                                                                                                                                                                                                                                                     |        |                    |       |
| c) Print          |       | ALPHA WIRE-* P/N 5936 7C 28 AWG<br>XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM<br>2464 80C 300V OR AWM 21894 105C 300V SUN RES 60C<br>OIL VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |        |                    |       |

### Applicable Specifications

|                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 10002                     | 105°C / 300 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 2464                      | 80°C / 300 V <sub>RMS</sub>  |
|                      | CM                                  | 105°C                        |
|                      | VW-1                                |                              |
|                      | AWM/STYLE 21894                     | 105°C / 300 V <sub>RMS</sub> |
|                      | SUN RES                             |                              |
|                      | 60C OIL                             |                              |
| 2) CSA International | CMG                                 | 105°C                        |
|                      | FT4                                 |                              |
| 3) IEC               | EN 60332-1 Flame Behavior           |                              |
|                      | EN 60332-2 Flame Behavior           |                              |
| 4) CE:               | EU Low Voltage Directive 2014/35/EC |                              |

## 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. 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:                                            | Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.                                                                                                                                                                                    |

## Properties

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| Physical & Mechanical Properties |                                                 |
| 1) Temperature Range             | -35 to 105°C                                    |
| 2) Bend Radius                   | 10X Cable Diameter                              |
| 3) Pull Tension                  | 13.6 Lbs, Maximum                               |
| 4) Sunlight Resistance           | Yes                                             |
| Electrical Properties            |                                                 |
| (For Engineering purposes only)  |                                                 |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                   | 25 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance            | 45 pF/ft @1 kHz, Nominal                        |
| 4) Inductance                    | 0.22 µH/ft, Nominal                             |
| 5) Conductor DCR                 | 66 Ω/1000ft @20°C, Nominal                      |
| 6) OA Shield DCR                 | 6.1 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             |
| d) Bulk(Made-to-order) |                                             |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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



## EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5936

5936 , RoHS-Compliant Commencing With 10/1/2008 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:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering & QA

3/25/2020

Alpha Wire

711 Lidgerwood Ave.

Elizabeth, NJ 07207

Tel: 1-908-925-8000



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.