

# Customer Specification

## PART NO. 25133

### Construction

|                   |           |                                                                                                                                                                                                                                                   |             | Diameters (In)     |             |
|-------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|-------------|
| 1) Component 1    |           | 3 X 1 PAIR                                                                                                                                                                                                                                        |             |                    |             |
| a) Conductor      |           | 18 (16/30) AWG TC                                                                                                                                                                                                                                 |             | 0.047              |             |
| b) Insulation     |           | 0.016" Wall, Nom. PVC                                                                                                                                                                                                                             |             | 0.079              |             |
| (1) Color Code    |           | Alpha Wire Color Code A                                                                                                                                                                                                                           |             |                    |             |
| Pair              | Color     | Pair                                                                                                                                                                                                                                              | Color       | Pair               | Color       |
| 1                 | BLACK-RED | 2                                                                                                                                                                                                                                                 | BLACK-WHITE | 3                  | BLACK-GREEN |
| c) Pair           |           | 2/Cond Cabled Together                                                                                                                                                                                                                            |             |                    |             |
| (1) Twists:       |           | 5.3 Twists/foot (min)                                                                                                                                                                                                                             |             |                    |             |
| 2) Cable Assembly |           | 3 Components Cabled                                                                                                                                                                                                                               |             |                    |             |
| a) Twists:        |           | 3.7 Twists/foot (min)                                                                                                                                                                                                                             |             |                    |             |
| b) Core Wrap      |           | Nonwoven Polyester Tape, 25% Overlap, Min.                                                                                                                                                                                                        |             |                    |             |
| 3) Shield:        |           | A/P/A Tape, 25% Overlap, Min.                                                                                                                                                                                                                     |             |                    |             |
| a) Drain Wire     |           | 18 (16/30) AWG TC                                                                                                                                                                                                                                 |             |                    |             |
| b) Braid          |           | TC,70% Coverage, Min.                                                                                                                                                                                                                             |             |                    |             |
| 4) Jacket         |           | 0.032" Wall, Nom.,Polyurethane (TPU)                                                                                                                                                                                                              |             | 0.376 (0.391 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 25133<br>XTRAGUARD(R) 2 RU AWM 20668 VW-1 --- LLXXXXXX CSA<br>AWM I/II A/B 90C 300 VOLTS FT1 CE<br>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 1569                      | 105°C / 300 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 20668                     | 90°C / 300 V <sub>RMS</sub>  |
|                      | VW-1                                |                              |
| 2) CSA International | AWM I/II A/B                        | 90°C / 300 V <sub>RMS</sub>  |
|                      | FT1                                 |                              |
| 3) CE:               | EU Low Voltage Directive 2006/95/EC |                              |

## Environmental

|                                     |                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) EU Directive 2002/95/EC(RoHS):   |                                                                                                                                                                                                                                                                              |
|                                     | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 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.                                                                                                                                                         |

## Properties

|                                  |                                 |
|----------------------------------|---------------------------------|
| Physical & Mechanical Properties |                                 |
| 1) Temperature Range             | -30 to 90°C                     |
| 2) Bend Radius                   | 10X Cable Diameter              |
| 3) Pull Tension                  | 95 Lbs, Maximum                 |
| 4) Sunlight Resistance           | Yes                             |
| Electrical Properties            | (For Engineering purposes only) |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>            |
| 2) Mutual Capacitance            | 39 pf/ft @1 kHz, Nominal        |
| 3) Ground Capacitance            | 70 pf/ft @1 kHz, Nominal        |
| 4) Characteristic Impedance      | 58                              |
| 5) Inductance                    | 0.18 µH/ft, Nominal             |
| 6) Conductor DCR                 | 7.3 /1000ft @20°C, Nominal      |
| 7) OA Shield DCR                 | 1.87 /1000ft @20°C, Nominal     |

## Other

|                        |                                             |
|------------------------|---------------------------------------------|
| <b>Packaging</b>       | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT             | 20 x 11 x 8 Continuous length               |
| b) 500 FT              | 16 x 11 x 8 Continuous length               |
| c) Bulk(Made-to-order) |                                             |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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 the 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 | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: [www.alphawire.com](http://www.alphawire.com)

## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 25133

25133, RoHS-Compliant Commencing With 8/1/2005 Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

| 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) | 0.1% by weight (1000 ppm) |
| Including Deca-BDE                    | 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 Company:

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

Dave Watson, Director of Engineering & QA

10/31/2012



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331