

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 25154**  
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**Issue: 13**  
**Issue Date: 12/20/2012**  
**Effective Date: 1/4/2013**

**A. Construction**

**Diameters (In)**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 4 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	3	WHITE		
2	RED	4	GREEN		

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 4 Components Cabled   |                    |
| a) Twists:        | 6.0 Twists/foot (min)   |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                        |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                                     |                    |
| a) Drain Wire     | 20 (7/28) AWG TC  |                    |
| b) Braid          | TC, 70% Coverage, Min.  |                    |
| 4) Jacket         | 0.032" Wall, Nom., Polyurethane (TPU)                             | 0.266 (0.278 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 25154  |                    |
|                   | XTRAGUARD(R) 2 RU AWM 20668 VW-1 --- LLXXXXXX CSA                 |                    |
|                   | AWM I/II A/B 90C 300 VOLTS FT1 CE                                 |                    |
|                   | ROHS (SEQ FOOTAGE)  |                    |
|                   | * = Factory Code  |                    |

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

**B. 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 |                              |

**C. Environmental Compliance**

- |                                     |  |
|-------------------------------------|--|
| 1) CE:                              | EU Directive 2011/65/EU (RoHS2):<br>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 <a href="#">RoHS C of C</a> . |
| 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 <a href="#">Alpha's REACH SVHC Declaration</a> .   |
| 3) California Proposition 65:       | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |

**D. Physical & Mechanical Properties**

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -30 to 90°C        |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 48 Lbs, Maximum    |
| 4) Sunlight Resistance | Yes                |

**E. Electrical Properties**

- |                       |   |
|-----------------------|---|
|                       | (For Engineering purposes only)                 |
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 44 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 79 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.19 μH/ft, Nominal                             |

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- 5) Conductor DCR 10.2  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR 2.9  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
  - a) 1000 FT 12 x 12 x 3.5 Continuous length
  - b) 500 FT 12 x 6 x 3.5 Continuous length
  - c) Bulk(Made-to-order)

*[Spool dimensions may vary slightly]*

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