

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

**Part Number: 25462**  
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**Issue: 10**  
**Issue Date: 2/5/2007**  
**Effective Date: 2/16/2007**

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 2 X 1 COND              |       |
| a) Conductor   | 20 (7/28) AWG TC        |       |
| b) Insulation  | 0.016" Wall, Nom. PVC   | 0.070 |
| (1) Color Code | Alpha Wire Color Code D |       |

Cond	Color	Cond	Color
1	BLACK	2	RED

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 2 Components Cabled  |                    |
| a) Twists:        | 8.0 Twists/foot (min)  |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                       |                    |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.                               |                    |
| a) Foil Direction | Foil Facing In   |                    |
| b) Drain Wire     | 20 (7/28) AWG TC   |                    |
| 4) Jacket         | 0.032" Wall, Nom., Polyurethane (PU)                             | 0.212 (0.222 Max.) |
| a) Color(s)       | Gray, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White |                    |
| b) Ripcord        | 1 End 810 Denier Nylon   |                    |
| c) Print          | ALPHA WIRE-* P/N 25462   |                    |
- XTRAGUARD 2 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS RU AWM 20668 VW-1 --- LLXXXXXX CSA AWM I/A/B 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. Industry Approvals**

- |                                   |  |              |
|-----------------------------------|--|--------------|
| 1) UL                             |  |              |
| a) Component 1                    | AWM/STYLE1569  | 105°C / 300V |
| b) Overall                        | AWM/STYLE20668   | 90°C / 300V  |
|                                   | VW-1   |              |
| 2) CSA International              | AWM-I-A/B-II-A/B   | 90°C / 300V  |
|                                   | FT1  |              |
| 3) 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. |              |
| 4) California Proposition 65:     | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |              |
| 5) CE:                            | LVD 73/23/EEC Amendment 93/68/EEC  |              |

**C. Physical & Mechanical Properties**

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -20 to 90°C        |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 26 Lbs, Maximum    |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

- |                                 |   |
|---------------------------------|---|
| (For Engineering purposes only) |   |
| 1) Voltage Rating               | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                  | 48 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance           | 86 pf/ft @1 kHz, Nominal                        |
| 4) Characteristic Impedance     | 46 Ω  |
| 5) Inductance                   | 0.19 μH/ft, Nominal                             |
| 6) Conductor DCR                | 10.2 Ω/1000ft @20°C, Nominal                    |
| 7) OA Shield DCR                | 8.2 Ω/1000ft @20°C, Nominal                     |

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**E. Other**

- 1) Packaging
  - a) Bulk(Made-to-order)

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