

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

**Part Number: 7048**  
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**Issue: 5**  
**Issue Date: 1/8/2008**  
**Effective Date: 2/29/2008**

**A. Construction**

**Diameters**

- |                |                        |                |
|----------------|------------------------|----------------|
| 1) Component 1 | 1 X 1 HOOKUP           |                |
| a) Conductor   | 10 (105/30) AWG TC     |                |
| b) Insulation  | 0.032" Wall, Nom. XLPE | 0.184+/- 0.004 |
| (1) Print      | ALPHA WIRE-*           |                |

EXXXXXX RU AWM 3271 125C 600V VW-1  
 LLXXXXX CSA CL-1251 FT1 X-LINK ROHS  
 \* = Factory Code

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

- (2) Color(s)

**B. Industry Approvals**

- |                                   |                     |                    |
|-----------------------------------|---------------------|--------------------|
| 1) UL                             | AWM/STYLE3271       | 125°C / 600/750DCV |
| 2) CSA International              | CL1251-XLPE         | 125°C / 600V       |
| 3) Military                       | MIL-W-16878E Type D | 105°C / 3000V      |
| 4) 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.

- 5) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**C. Physical & Mechanical Properties**

- |                      |                    |
|----------------------|--------------------|
| 1) Temperature Range | -55 to 125°C       |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 82 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |                   |                              |
|-------------------|------------------------------|
| 1) Voltage Rating | 600 V <sub>RMS</sub>         |
| 2) Inductance     | 0.04 µH/ft, Nominal          |
| 3) Conductor DCR  | 1.08 Ω/1000ft @20°C, Nominal |

**E. Other**

- |              |  |
|--------------|--|
| 1) Packaging |  |
| a) 1000 FT   |  |
| b) 100 FT    |  |

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