

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

**Part Number: 9442**  
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**Issue: 1**  
**Issue Date: 1/28/2016**  
**Effective Date: 2/10/2016**

**A. Construction** **Diameters (In)**

- |    |               |                                   |        |
|----|---------------|-----------------------------------|--------|
| 1) | Component 1   | 1 X 1 COND                        |        |
|    | a) Conductor  | 42 (7/50) AWG Silver Copper Alloy | 0.0030 |
|    | b) Insulation | 0.0024" Wall, Nom. PFA            | 0.0077 |
|    | (1) Color(s)  |                                   |        |

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

- |    |             |  |        |
|----|-------------|--|--------|
| 2) | Shield      | Tinned Copper Alloy SPIRAL Shield,90% Coverage, Min. |        |
| 3) | Jacket      | 0.0012" Wall, Nom.,PFA                               | 0.0120 |
|    | a) Color(s) | WHITE  |        |

**B. Applicable Specifications**

- 1) CE: EU Low Voltage Directive 2006/95/EC

**C. Environmental Compliance**

- 1) CE: EU Directive 2011/65/EU(RoHS2):  
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 [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](#).

**D. Physical & Mechanical Properties**

- 1) Temperature Range -70 to 150°C  
2) Bend Radius 10X Cable Diameter

**E. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 30 V<sub>RMS</sub>  
2) Characteristic Impedance 50 Ω +/- 5  
3) Ground Capacitance 33.6 pF/ft @1 kHz, Nominal  
4) Velocity of Propagation 69 %  
5) Conductor DCR 2286 Ω/1000ft @20°C, Max  
6) Attenuation, Max dB/100ft 21.3 @ 10 MHz

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)  
a) 328 FT 5.12 x 3.54 x 2.36 Continuous length  
*[Spool dimensions may vary slightly]*

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