

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

**Part Number: 9434**  
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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 34 (7/42) AWG Silver Platted Copper 0.0074
  - b) Insulation 0.0063" Wall, Nom. PFA 0.020
  - (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

- 2) Shield Silver Platted Copper BRAID Shield,90% Coverage, Min.
- 3) Jacket 0.005" Wall, Nom.,PFA 0.039
- a) Color(s) WHITE

**B. Applicable Specifications**

- 1) UL AWM/STYLE 1745 90°C / 30 V<sub>RMS</sub>
- 2) 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 200°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 +/- 2
- 3) Ground Capacitance 29.9 pF/ft @1 kHz, Nominal
- 4) Velocity of Propagation 70 %
- 5) Conductor DCR 271.9 Ω/1000ft @20°C, Max
- 6) Attenuation, Max dB/100ft 5.5 @ 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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