

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

**Part Number: 9432**  
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**Issue: 1**  
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- |                        |                                     |                       |
|------------------------|-------------------------------------|-----------------------|
| <b>A. Construction</b> |                                     | <b>Diameters (In)</b> |
| 1) Component 1         | 1 X 1 COND                          |                       |
| a) Conductor           | 32 (7/40) AWG Silver Platted Copper | 0.0093                |
| b) Insulation          | 0.0083" Wall, Nom. PFA              | 0.026                 |
| (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                                 | 0.044 |
| 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             | 168.6 Ω/1000ft @20°C, Max  |
| 6) Attenuation, Max dB/100ft | 4.1 @ 10 MHz               |
|                              | 22.9 @ 100 MHz             |
|                              | 48.8 @ 500 MHz             |
|                              | 70.1 @ 1 GHz               |
|                              | 106.7 @ 2 GHz              |
|                              | 134.1 @ 3 GHz              |
|                              | 164.6 @ 4 GHz              |
|                              | 192 @ 5 GHz                |
|                              | 219.5 @ 6 GHz              |

**F. Other**

- |              |   |
|--------------|---|
| 1) Packaging | Flange x Traverse x Barrel (inches)   |
| a) 328 FT    | 5.12 x 3.54 x 2.36 Continuous length<br><i>[Spool dimensions may vary slightly]</i> |

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