

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

**Part Number: CDC11130**  
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**Issue: 1**  
**Issue Date: 1/16/2014**  
**Effective Date: 3/13/2014**

**A. Construction**

- |                |   | <u>Diameters (In)</u> |
|----------------|---|-----------------------|
| 1) Component 1 | 1 X 1 COND                                    |                       |
| a) Conductor   | 22 (SOLID) AWG BCW                            | 0.025                 |
| b) Insulation  | 0.026" Wall, Nom. Semi-Solid Polyethylene(PE) | 0.146                 |
| (1) Color(s)   |   |                       |

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

- |             |  |                |
|-------------|--|----------------|
| 2) Shield   | Bare Copper BRAID Shield,95% Coverage, Min.      |                |
| 3) Jacket   | 0.025" Wall, Nom.,High Density Polyethylene (PE) | 0.242+/- 0.005 |
| a) Color(s) | BLACK  |                |

**B. Applicable Specifications**

- |             |                                     |                             |
|-------------|-------------------------------------|-----------------------------|
| 1) Military | MIL-C-17A/30B,RG 62A/U              | 80°C / 300 V <sub>RMS</sub> |
| 2) CE:      | EU Low Voltage Directive 2006/95/EC |                             |

**C. Environmental Compliance**

- |                                     |  |
|-------------------------------------|--|
| 1) CE:                              | EU Directive 2011/65/EU(RoHS2):<br>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 <a href="#">RoHS C of C.</a> |
| 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 <a href="#">Alpha's REACH SVHC Declaration.</a>  |
| 3) California Proposition 65:       | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |

**D. Physical & Mechanical Properties**

- |                      |                    |
|----------------------|--------------------|
| 1) Temperature Range | -55 to 80°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 18.3 Lbs, Maximum  |
- (For Engineering purposes only)

**E. Electrical Properties**

- |                       |  |
|-----------------------|--|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>   |
| 2) Ground Capacitance | 13.5 pf/ft @1 kHz, Nominal   |
| 3) Inductance         | 0.116 µH/ft, Nominal   |
| 4) Conductor DCR      | 41 Ω/1000ft @20°C, Nominal   |
| 5) OA Shield DCR      | 2.9 Ω/1000ft @20°C, Nominal  |
| 6) Impedance          | 93 Ohm   |
| 7) Attenuation (Nom.) | 0.3 dB @1 MHz<br>0.9 dB @ 10MHz<br>1.9 dB @ 50MHz<br>2.7 dB @ 100MHz<br>3.8 dB @ 200Mhz<br>5.3 dB @ 400 Mhz<br>7.3 dB @ 700 Mhz<br>8.2 dB @ 900 Mhz<br>8.7 dB @ 1000 Mhz |

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