

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 518263	Issue: 1
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	Effective Date: 4/24/2013

- A. Construction** Diameters (in)
- 1) Component 1 6 X 1 COND
- a) Conductor 28 (7/36) AWG TC 0.015
- b) Insulation 0.016" Wall, Nom. MPPE 0.047
- (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED	5	BLUE
2	BROWN	4	GREEN	6	WHITE

- 2) Cable Assembly 6 Components Cabled
- a) Twists: 6.0 Twists/foot (min)
- b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Shield: A/P/A Tape, 25% Overlap, Min.
- a) Drain Wire 28 (7/36) AWG TC
- b) Braid TC, 85% Coverage, Min.
- 4) Jacket 0.032" Wall, Nom. MPPE-TPE 0.243 +/- 0.012
- a) Color(s) BLACK
- b) Jacket Separator Tissue Tape, 25% Overlap, Min.
- c) Print ALPHA WIRE-* P/N 518263 6C 28 AWG
RU AWM 21270 105C 600V CE ROHS
* = Factory Code

B. Applicable Specifications

- 1) UL
- a) Component 1 AWM/STYLE 11291 105°C / 600 V_{RMS}
- b) Overall AWM/STYLE 21270 105°C / 600 V_{RMS}

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 -40 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 14.2 Lbs, Maximum
- (For Engineering purposes only)

E. Electrical Properties

- 1) Voltage Rating 600 V_{RMS}
- 2) Capacitance 13.9 pF/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 25 pF/ft @1 kHz, Nominal
- 4) Inductance 0.25 µH/ft, Nominal
- 5) Conductor DCR 66 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 3.5 Ω/1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
- a) Bulk(Made-to-order)
- 2) Notes:
- a) The insulation and jacket materials are Halogen free and are relatively low smoke, however, they have not been tested to a specific Smoke standard or requirement.

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE &

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NON-RETURNABLE.

Accepted By: <i>Tom Duckert</i>	Date: <i>5/3/2013</i>
Company: <i>LA Electronics Inc.</i>	Title: <i>President</i>

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