

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 518299
Page 1 of 2 Pages

Issue: 1
Issue Date: 7/26/2013
Effective Date: 9/20/2013

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 1 X 1 TRIAD | |
| a) Conductor | 14 (7/.0242) AWG BC | 0.073 |
| b) Insulation | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON | 0.115 |
| (1) Print | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED | |
| (2) Color(s) | | |
- | Triad | Color | Triad | Color | Triad | Color |
|-------|-------------------------|-------|-------|-------|-------|
| 1 | ORANGE#1-ORANGE#2-GREEN | | | | |
- | | | |
|-------------------|--|--------------------|
| c) Pair | 3/Cond Cabled Together | |
| (1) Twists: | 3.4 Twists/foot (min) | |
| (2) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 2) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing In | |
| b) Drain Wire | 16 (7/.0192) AWG TC | |
| 3) Jacket | 0.048" Wall, Nom., PVC | 0.351 (0.367 Max.) |
| a) Color(s) | BLACK | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 518299 1TRIAD 14 AWG
EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET
SUN. RES. DIR. BUR. CE ROHS
* = Factory Code | |

B. Applicable Specifications

- | | | |
|--------|-------------------------------------|-----------------------------|
| 1) UL | TC | 90°C / 600 V _{RMS} |
| | SUN RES | |
| | DIRECT BURIAL | |
| | EXPOSED RUN | |
| 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 . |
| 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 | -25 to 90°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 117 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| 5) Direct Burial | Yes |

E. Electrical Properties

- | | |
|-----------------------|---------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Mutual Capacitance | 50 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 90 pf/ft @1 kHz, Nominal |

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- 4) Characteristic Impedance 43 Ω
- 5) Inductance 0.17 $\mu\text{H}/\text{ft}$, Nominal
- 6) Conductor DCR 2.6 $\Omega/1000\text{ft}$ @20°C, Nominal
- 7) OA Shield DCR 3.8 $\Omega/1000\text{ft}$ @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)

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

Accepted By:	Date:
Company:	Title:

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