

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 518247
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Issue: 2
Issue Date: 7/31/2014
Effective Date: 7/31/2014

A. Construction

Diameters (In)

- | | | | |
|----|----------------|---------------------------------------|-------|
| 1) | Component 1 | 3 X 1 PAIR | |
| | a) Conductor | 28 (7/36) AWG Tinned Copper | 0.015 |
| | b) Insulation | 0.0145" Wall, Nom. Polyethylene, Foam | 0.044 |
| | (1) Color Code | Alpha Wire Color Code M | |

Pair	Color	Pair	Color	Pair	Color
1	BLUE/WHITE - WHITE/BLUE	2	ORANGE/WHITE - WHITE/ORANGE	3	GREEN/WHITE - WHITE/GREEN

- | | | | |
|----|-------------------|---|--------------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 9.6 Twists/foot (min) | |
| 2) | Cable Assembly | 3 Components Cabled | |
| | a) Twists: | 6.0 Twists/foot (min) | |
| 3) | Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| | a) Foil Direction | Foil Facing Out | |
| | b) Drain Wire | 28 (7/36) AWG Tinned Copper | |
| 4) | Jacket | 0.035" Wall, Nom., PVC | 0.243 (0.257 Max.) |
| | a) Color(s) | BLACK | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N 518247 3PR 28 AWG
SHIELDED 75C (UL) CL2 OR AWM 2919 LOW VOLTAGE
COMPUTER CABLE OR C(UL) CM ROHS CE
* = Factory Code | |

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

- | | | | |
|----|-------------------|-------------------------------------|----------------------------|
| 1) | UL | AWM/STYLE 2919 | 80°C / 30 V _{RMS} |
| | | CL2 | 75°C |
| 2) | CSA International | C(UL) TYPE CM | 75°C |
| 3) | CE: | EU Low Voltage Directive 2006/95/EC | |

C. Environmental Compliance

- 1) EU Directive 2002/95/EC(RoHS):
 All materials used in the manufacture of this part are in compliance with European Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment.
- 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: -20 to 80°C
- 2) Bend Radius: 8X Cable Diameter
- 3) Pull Tension: 9.6 Lbs, Maximum

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating: 300 V_{RMS}
 - 2) Characteristic Impedance: 120 Ω +/- 10
 - 3) Inductance: 0.25 μH/ft, Nominal
 - 4) Mutual Capacitance: 11 pf/ft @1 kHz, Nominal
 - 5) Ground Capacitance: 20 pf/ft @1 kHz, Nominal
 - 6) Velocity of Propagation: 78 %
 - 7) Conductor DCR: 65 Ω/1000ft @20°C, Nominal

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8) OA Shield DCR 26 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging Flange x Traverse x Barrel (inches)
 a) 1000 FT 12 x 12 x 3.5 Continuous length
 b) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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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