

**ALPHA WIRE COMPANY  
CUSTOMER PRODUCT SPECIFICATION**

**Part Number: S9802377**  
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**Issue: 3**  
**Issue Date: 5/5/2010**  
**Effective Date: 5/5/2010**

**A. Construction**

**Diameters (In)**

- 1) Component 1 2 X 1 PAIR
  - a) Conductor 22 (7/30) AWG TC
  - b) Insulation 0.027" Wall, Nom. Polyolefin 0.084
  - (1) Color Code Alpha Wire Company Color Code L
- | Pair | Color      | Pair | Color        | Pair | Color |
|------|------------|------|--------------|------|-------|
| 1    | WHITE-BLUE | 2    | WHITE-ORANGE |      |       |
- c) Pair 2/Cond Cabled Together
  - Individually Applied:
  - d) Shield: Alum/Mylar Tape, 25% Overlap, Min.
  - (1) Foil Direction Foil Facing Out
  - (2) Drain Wire 24 (7/32) AWG TC
  - e) Over Wrap: Clear Mylar Tape, 25% Overlap, Min.
  - 2) Cable Assembly 2 Components Cabled
  - a) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
  - 3) Shield TC BRAID Shield, 95% Coverage, Min.
  - 4) Jacket 0.035" Wall, Nom., Polyethylene (PE) 0.450 (0.465 Max.)
  - a) Color(s) BLACK

**B. Industry Approvals**

- 1) EU Directive 2002/95/EC(RoHS):  
All materials used in the manufacture of this part are in compliance with EU 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 may not contain any of the substances listed on the 13 January 2010 European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.

**C. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 75°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 29 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Characteristic Impedance 110 Ω +/- 11
- 3) Mutual Capacitance 12.5 pf/ft @1 kHz, Nominal
- 4) Velocity of Propagation 73 %
- 5) Conductor DCR 17.22 Ω/1000ft @20°C, Nominal
- 6) NEXT 50Db/1000ft Min. .5 Mhz to 3.5 Mhz.

**E. Other**

- 1) Packaging
  - 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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