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

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**Part Number: 1120**

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**Issue: 4**

**Issue Date: 5/19/2005**

**Effective Date: 8/1/2005**

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**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 2 X 1 COND              |       |
| a) Conductor   | 28 (7/36) AWG TC        |       |
| b) Insulation  | 0.010" Wall, Nom. PVC   | 0.035 |
| (1) Color Code | Alpha Wire Color Code D |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

- |                   |                                     |                    |
|-------------------|-------------------------------------|--------------------|
| 2) Cable Assembly | 2 Components Cabled                 |                    |
| a) Twists:        | 12.0 Twists/foot (min)              |                    |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min. |                    |
| 3) Shield         | TC BRAID Shield, 80% Coverage, Min. |                    |
| 4) Jacket         | 0.010" Wall, Nom., PVC              | 0.115 (0.122 Max.) |
| a) Color(s)       | CLEAR                               |                    |
| b) Print          | ALPHA WIRE-* P/N 1120               |                    |
|                   | ROHS                                |                    |
|                   | * = Factory Code                    |                    |

**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. Consult Alpha Wire's web site for compliance Date of Manufacture.
- 2) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**C. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 4.7 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 200 V<sub>RMS</sub>
- 2) Capacitance 38 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 68 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 59 Ω
- 5) Inductance 0.22 μH/ft, Nominal
- 6) Conductor DCR 65 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 10.2 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT

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