

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

Part Number: 1703  
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Issue: 4  
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**A. Construction**

Diameters

- |                |                                    |       |
|----------------|------------------------------------|-------|
| 1) Component 1 | 1 X 1 COND                         |       |
| a) Conductor   | 24 (10/34) AWG TC                  |       |
| b) Insulation  | 0.020" Wall, Nom. Polyethylene(PE) | 0.064 |
| (1) Color(s)   |                                    |       |

Cond	Color	Cond	Color
1	WHITE		

- |             |                                    |                    |
|-------------|------------------------------------|--------------------|
| 2) Shield   | TC BRAID Shield,90% Coverage, Min. |                    |
| 3) Jacket   | 0.030" Wall, Nom.,PVC              | 0.146 (0.155 Max.) |
| a) Color(s) | GRAY                               |                    |
| b) Print    | ALPHA WIRE-* P/N 1703              |                    |
|             | 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 60°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 5.8 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 3500 V<sub>RMS</sub>
- 2) Characteristic Impedance 43 Ω
- 3) Inductance 0.07 μH/ft, Nominal
- 4) Ground Capacitance 36 pf/ft @1 kHz, Nominal
- 5) Conductor DCR 29 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 7.4 Ω/1000ft @20°C, Nominal

**E. Other**

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

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