

---

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

---

Part Number: 3302

Page 1 of 1 Pages

Issue: 4

Issue Date: 5/19/2005

Effective Date: 8/1/2005

---

**A. Construction**

**Diameters**

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

0.035

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	WHITE		

- 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, 90% Coverage, Min.
  - 4) Jacket 0.012" Wall, Nom., PVC
    - a) Color(s) GRAY
    - b) Print ALPHA WIRE-\* P/N 3302
- ROHS  
\* = Factory Code

0.119 (0.126 Max.)

**B. Industry Approvals**

- 1) Military
  - a) Component 1 MIL-W-16878/Type B 105°C / 600V
- 2) 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.

- 3) 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 -55 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 5.4 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 600 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 7.5 Ω/1000ft @20°C, Nominal

**E. Other**

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

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.