

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

**Part Number: 3303**  
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**Issue: 4**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- 1) Component 1                    3 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
1	BLACK	2	WHITE

- 2) Cable Assembly                3 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 3303
- 0.124 (0.132 Max.)
- ROHS  
\* = Factory Code

**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                    6.8 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating                600 V<sub>RMS</sub>
- 2) Capacitance                    35 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance        63 pf/ft @1 kHz, Nominal
- 4) Inductance                     0.22 µH/ft, Nominal
- 5) Conductor DCR                65 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR                8 Ω/1000ft @20°C, Nominal

**E. Other**

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

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