

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 3221
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Issue: 4
Issue Date: 5/19/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | | |
|----|----------------|--|-------|
| 1) | Component 1 | 2 X 1 COND | |
| | a) Conductor | 22 (19/34) AWG TC | |
| | b) Insulation | 0.010" Wall, Nom. PVC/ 0.003" Wall NYLON | 0.058 |
| | (1) Color Code | Alpha Wire Color Code G | |

| Cond | Color | Cond | Color | Cond | Color |
|------|-------|------|-------|------|-------|
| 1 | WHITE | 2 | BLACK | | |

- | | | | |
|----|----------------|---|--------------------|
| 2) | Cable Assembly | 2 Components Cabled | |
| | a) Twists: | 8.0 Twists/foot (min) | |
| | b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) | Shield | TC BRAID Shield, 90% Coverage, Min. | |
| 4) | Jacket | 0.016" Wall, Nom., PVC | 0.173 (0.185 Max.) |
| | a) Color(s) | GRAY | |
| | b) Print | ALPHA WIRE-* P/N 3221 ROHS * = Factory Code | |

B. Industry Approvals

- 1) Military
 - a) Component 1 MIL-W-16878/Type B/N 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 15.8 Lbs, Maximum

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 600 V_{RMS}
- 2) Capacitance 49 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 88 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 45 Ω
- 5) Inductance 0.19 μH/ft, Nominal
- 6) Conductor DCR 15.2 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 5.4 Ω/1000ft @20°C, Nominal

E. Other

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

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