

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

**Part Number: 3246**  
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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   | 16 (19/29) AWG TC                        |       |
|    | b) Insulation  | 0.010" Wall, Nom. PVC/ 0.003" Wall NYLON | 0.082 |
|    | (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:     | 4.8 Twists/foot (min)                             |                    |
|    | b) Core Wrap   | Clear Mylar Tape, 25% Overlap, Min.               |                    |
| 3) | Shield         | TC BRAID Shield, 90% Coverage, Min.               |                    |
| 4) | Jacket         | 0.023" Wall, Nom., PVC                            | 0.241 (0.255 Max.) |
|    | a) Color(s)    | GRAY  |                    |
|    | b) Print       | ALPHA WIRE-* P/N 3246<br>ROHS<br>* = 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 44 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 600 V<sub>RMS</sub>
- 2) Capacitance 66 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 119 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 33 Ω
- 5) Inductance 0.16 μH/ft, Nominal
- 6) Conductor DCR 4.6 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 3.5 Ω/1000ft @20°C, Nominal

**E. Other**

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

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