

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

**Part Number: 3248**  
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**Issue: 4**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |    |                |  |       |
|----|----------------|--|-------|
| 1) | Component 1    | 4 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 Company Color Code G          |       |

Cond	Color	Cond	Color	Cond	Color
1	WHITE	3	RED		
2	BLACK	4	GREEN		

- |    |                |                                     |                    |
|----|----------------|-------------------------------------|--------------------|
| 2) | Cable Assembly | 4 Components Cabled                 |                    |
|    | a) Twists:     | 4.0 Twists/foot (min)               |                    |
|    | b) Core Wrap   | Clear Mylar Tape, 25% Overlap, Min. |                    |
| 3) | Shield         | TC BRAID Shield, 90% Coverage, Min. |                    |
| 4) | Jacket         | 0.025" Wall, Nom., PVC              | 0.279 (0.295 Max.) |
|    | a) Color(s)    | SLATE                               |                    |
|    | b) Print       | ALPHA WIRE-* P/N 3248               |                    |
|    |                | ROHS                                |                    |
|    |                | * = Factory Code                    |                    |

**B. Industry Approvals**

- 1) Military
  - a) Component 1 MIL-W-16878/Type B/N 105°C / 600 V<sub>RMS</sub>
- 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 84 Lbs, Maximum

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 600 V<sub>RMS</sub>
  - 2) Capacitance 58 pf/ft @1 kHz, Nominal Conductor to Conductor
  - 3) Ground Capacitance 104 pf/ft @1 kHz, Nominal
  - 4) Inductance 0.16 µH/ft, Nominal
  - 5) Conductor DCR 4.7 Ω/1000ft @20°C, Nominal
  - 6) OA Shield DCR 3.3 Ω/1000ft @20°C, Nominal

**E. Other**

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

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