

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

**Part Number: 3231**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- |                |                                          |       |
|----------------|------------------------------------------|-------|
| 1) Component 1 | 2 X 1 COND                               |       |
| a) Conductor   | 20 (19/32) AWG TC                        |       |
| b) Insulation  | 0.010" Wall, Nom. PVC/ 0.003" Wall NYLON | 0.066 |
| (1) Color Code | Alpha Wire Company Color Code G          |       |

Cond	Color	Cond	Color	Cond	Color
1	WHITE	2	BLACK		

- |                   |                                                   |                    |
|-------------------|---------------------------------------------------|--------------------|
| 2) Cable Assembly | 2 Components Cabled                               |                    |
| a) Twists:        | 6.0 Twists/foot (min)                             |                    |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.               |                    |
| 3) Shield         | TC BRAID Shield, 90% Coverage, Min.               |                    |
| 4) Jacket         | 0.019" Wall, Nom., PVC                            | 0.195 (0.207 Max.) |
| a) Color(s)       | SLATE                                             |                    |
| b) Print          | ALPHA WIRE-* P/N 3231<br>ROHS<br>* = Factory Code |                    |

**B. Industry Approvals**

- |                                   |                                                                                                                                                                                                                                                                              |                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1) Military                       |                                                                                                                                                                                                                                                                              |                  |
| a) Component 1                    | MIL-W-16878/Type B/N                                                                                                                                                                                                                                                         | 105°C / 600 VRMS |
| 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      | 23.1 Lbs, Maximum  |

**D. Electrical Properties**

- |                             |                                                 |
|-----------------------------|-------------------------------------------------|
|                             | (For Engineering purposes only)                 |
| 1) Voltage Rating           | 600 VRMS                                        |
| 2) Capacitance              | 55 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance       | 99 pf/ft @1 kHz, Nominal                        |
| 4) Characteristic Impedance | 40 Ω                                            |
| 5) Inductance               | 0.18 μH/ft, Nominal                             |
| 6) Conductor DCR            | 9.4 Ω/1000ft @20°C, Nominal                     |
| 7) OA Shield DCR            | 5.5 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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