

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

**Part Number: 3405**  
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**Issue: 4**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |                |                                 |       |
|----------------|---------------------------------|-------|
| 1) Component 1 | 5 X 1 COND                      |       |
| a) Conductor   | 18 (19/30) AWG TC               |       |
| b) Insulation  | 0.016" Wall, Nom. PVC           | 0.082 |
| (1) Color Code | Alpha Wire Company Color Code F |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED	5	ORANGE
2	WHITE	4	GREEN		

- |                   |                                     |                    |
|-------------------|-------------------------------------|--------------------|
| 2) Cable Assembly | 5 Components Cabled                 |                    |
| a) Twists:        | 3.7 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              | 0.303 (0.315 Max.) |
| a) Color(s)       | SLATE                               |                    |
| b) Print          | ALPHA WIRE-* P/N 3405               |                    |
|                   | ROHS                                |                    |
|                   | * = Factory Code                    |                    |

**B. Industry Approvals**

- |                                   |  |                               |
|-----------------------------------|--|-------------------------------|
| 1) Military                       |  |                               |
| a) Component 1                    | MIL-W-16878/Type C   | 105°C / 1000 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      | 83 Lbs, Maximum    |

**D. Electrical Properties**

- |                       |   |
|-----------------------|---|
|                       | (For Engineering purposes only)                 |
| 1) Voltage Rating     | 1000 V <sub>RMS</sub>                           |
| 2) Capacitance        | 53 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 95 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.17 µH/ft, Nominal                             |
| 5) Conductor DCR      | 6 Ω/1000ft @20°C, Nominal                       |
| 6) OA Shield DCR      | 2.9 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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