

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

**Part Number: 3408**  
**Page 1 of 1 Pages**

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

**A. Construction**

Diameters (In)

- |                |                                 |       |
|----------------|---------------------------------|-------|
| 1) Component 1 | 8 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	4	GREEN	7	WHITE/BLACK
2	WHITE	5	ORANGE	8	RED/BLACK
3	RED	6	BLUE		

- |                   |                                     |                    |
|-------------------|-------------------------------------|--------------------|
| 2) Cable Assembly | 8 Components Cabled                 |                    |
| a) Twists:        | 3.0 Twists/foot (min)               |                    |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min. |                    |
| 3) Shield         | TC BRAID Shield, 90% Coverage, Min. |                    |
| 4) Jacket         | 0.030" Wall, Nom., PVC              | 0.364 (0.378 Max.) |
| a) Color(s)       | SLATE                               |                    |
| b) Print          | ALPHA WIRE-* P/N 3408               |                    |
|                   | 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      | 129 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      | 2.7 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.