

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

**Part Number: 58411**  
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**Issue: 8**  
**Issue Date: 1/30/2009**  
**Effective Date: 2/6/2009**

**A. Construction**

**Diameters (In)**

- |                |                                     |       |
|----------------|-------------------------------------|-------|
| 1) Component 1 | 1 X 1 PAIR                          |       |
| a) Conductor   | 22 (7/30) AWG BC                    |       |
| b) Insulation  | 0.008" Wall, Nom. PVC, Plenum Rated | 0.046 |
| (1) Color Code | Alpha Wire Company Color Code A1    |       |
- 
- | Pair | Color     | Pair | Color |
|------|-----------|------|-------|
| 1    | BLACK-RED |      |       |
- 
- |                   |   |                    |
|-------------------|---|--------------------|
| c) Pair           | 2/Cond Cabled Together  |                    |
| (1) Twists:       | 8.0 Twists/foot (min)   |                    |
| 2) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.  |                    |
| a) Foil Direction | Foil Facing Out   |                    |
| b) Drain Wire     | 24 (7/32) AWG TC  |                    |
| 3) Jacket         | 0.015" Wall, Nom., PVC, Plenum Rated  | 0.126 (0.133 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Print          | ALPHA WIRE-* P/N 58411 1PR 22 AWG<br>SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P ROHS<br>* = Factory Code |                    |

**B. Industry Approvals**

- |                                   |  |      |
|-----------------------------------|--|------|
| 1) UL                             | CMP  | 75°C |
|                                   | CL2P   | 75°C |
| 2) CSA International              | FT6  |      |
|                                   | C(UL) TYPE CMP   | 75°C |
| 3) Other                          | REACH Regulation (EC 1907/2006)  |      |
| 4) 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. |      |
| 5) 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 | -20 to 75°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 14.5 Lbs, Maximum  |

**D. Electrical Properties**

- |                                 |                              |
|---------------------------------|------------------------------|
| (For Engineering purposes only) |                              |
| 1) Voltage Rating               | 300 V <sub>RMS</sub>         |
| 2) Mutual Capacitance           | 57 pf/ft @1 kHz, Nominal     |
| 3) Ground Capacitance           | 103 pf/ft @1 kHz, Nominal    |
| 4) Characteristic Impedance     | 38 Ω                         |
| 5) Inductance                   | 0.17 μH/ft, Nominal          |
| 6) Conductor DCR                | 15.2 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR                | 23.6 Ω/1000ft @20°C, Nominal |

**E. Other**

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

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