

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

Part Number: 58411  
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**A. Construction**

Diameters

- |    |                |                                     |       |
|----|----------------|-------------------------------------|-------|
| 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 Color Code A1            |       |

Pair	Color	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)       | GRAY   |                    |
|    | b) Print          | ALPHA WIRE-* P/N 58411 1PR 22 AWG<br>SHIELDED (UL) TYPE CL2P --- LLXXXXXX CSA TYPE CMP<br>FT6 ROHS |                    |

\* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

**B. Industry Approvals**

- |    |                                |  |      |
|----|--------------------------------|--|------|
| 1) | UL                             | CL2P   | 60°C |
| 2) | CSA International              | CMP<br>FT6   | 60°C |
| 3) | 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. |      |
| 4) | 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 60°C        |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 14.5 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                          |                              |
|----|--------------------------|------------------------------|
| 1) | Voltage Rating           | 150 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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