

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

Part Number: 58902

Issue: 5

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**A. Construction**

Diameters

- |    |                |                               |       |
|----|----------------|-------------------------------|-------|
| 1) | Component 1    | 2 X 1 PAIR                    |       |
|    | a) Conductor   | 24 (7/32) AWG TC              |       |
|    | b) Insulation  | 0.012" Wall, Nom. Teflon(FEP) | 0.048 |
|    | (1) Color Code | Alpha Wire Color Code N       |       |
- 
- | Pair | Color        | Pair | Color      | Pair | Color |
|------|--------------|------|------------|------|-------|
| 1    | BLACK-YELLOW | 2    | RED-VIOLET |      |       |
- 
- |    |                   |   |                    |
|----|-------------------|---|--------------------|
| c) | Pair              | 2/Cond Cabled Together  |                    |
|    | (1) Twists:       | 9.6 Twists/foot (min)   |                    |
| 2) | Cable Assembly    | 2 Components Cabled   |                    |
|    | a) Twists:        | 5.3 Twists/foot (min)   |                    |
|    | b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.   |                    |
| 3) | Shield:           | Alum/Mylar Tape, 25% Overlap, Min.  |                    |
|    | a) Foil Direction | Foil Facing In  |                    |
|    | b) Drain Wire     | 24 (7/32) AWG TC  |                    |
| 4) | Jacket            | 0.011" Wall, Nom.,PVDF  | 0.186 (0.196 Max.) |
|    | a) Color(s)       | GRAY  |                    |
|    | b) Print          | ALPHA WIRE-* P/N 58902 2PR 24 AWG<br>SHIELDED 125C (UL) TYPE CL2P ---<br>LLXXXXXX CSA TYPE CMP FT6 ROHS |                    |

\* = Factory Code

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

**B. Industry Approvals**

- |    |                                |  |       |
|----|--------------------------------|--|-------|
| 1) | UL                             | CL2P   | 125°C |
| 2) | CSA International              | CMP<br>FT6   | 125°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 | -55 to 125°C       |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 17.6 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                          |                            |
|----|--------------------------|----------------------------|
| 1) | Voltage Rating           | 150 V <sub>RMS</sub>       |
| 2) | Characteristic Impedance | 110 Ω                      |
| 3) | Mutual Capacitance       | 12.5 pf/ft @1 kHz, Nominal |
| 4) | Ground Capacitance       | 23 pf/ft @1 kHz, Nominal   |

**E. Other**

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

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