

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

**Part Number: 3310**  
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**Issue: 4**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 10 X 1 COND             |       |
| a) Conductor   | 28 (7/36) AWG TC        |       |
| b) Insulation  | 0.010" Wall, Nom. PVC   | 0.035 |
| (1) Color Code | Alpha Wire Color Code F |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	ORANGE	9	GREEN/BLACK
2	WHITE	6	BLUE	10	ORANGE/BLACK
3	RED	7	WHITE/BLACK		
4	GREEN	8	RED/BLACK		

- |                   |                                     |                    |
|-------------------|-------------------------------------|--------------------|
| 2) Cable Assembly | 10 Components Cabled                |                    |
| a) Twists:        | 6.0 Twists/foot (min)               |                    |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min. |                    |
| 3) Shield         | TC BRAID Shield, 90% Coverage, Min. |                    |
| 4) Jacket         | 0.018" Wall, Nom., PVC              | 0.201 (0.213 Max.) |
| a) Color(s)       | GRAY                                |                    |
| b) Print          | ALPHA WIRE-* P/N 3310               |                    |
|                   | ROHS                                |                    |
|                   | * = Factory Code                    |                    |

**B. Industry Approvals**

- |                                   |                    |              |
|-----------------------------------|--------------------|--------------|
| 1) Military                       |                    |              |
| a) Component 1                    | MIL-W-16878/Type B | 105°C / 600V |
| 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      | 19 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |                       |   |
|-----------------------|---|
| 1) Voltage Rating     | 600 V <sub>RMS</sub>                            |
| 2) Capacitance        | 35 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 63 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.22 µH/ft, Nominal                             |
| 5) Conductor DCR      | 66 Ω/1000ft @20°C, Nominal                      |
| 6) OA Shield DCR      | 3.7 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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