

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

Part Number: 3223  
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Issue: 4  
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**A. Construction**

Diameters

- |    |                |  |       |
|----|----------------|--|-------|
| 1) | Component 1    | 4 X 1 COND                               |       |
|    | a) Conductor   | 22 (19/34) AWG TC                        |       |
|    | b) Insulation  | 0.010" Wall, Nom. PVC/ 0.003" Wall NYLON | 0.058 |
|    | (1) Color Code | Alpha Wire Color Code G                  |       |

Cond	Color	Cond	Color	Cond	Color
1	WHITE	3	RED		
2	BLACK	4	GREEN		

- |    |                |                                     |                    |
|----|----------------|-------------------------------------|--------------------|
| 2) | Cable Assembly | 4 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         | 0.019" Wall, Nom., PVC              | 0.203 (0.217 Max.) |
|    | a) Color(s)    | GRAY                                |                    |
|    | b) Print       | ALPHA WIRE-* P/N 3223               |                    |
|    |                | ROHS                                |                    |
|    |                | * = Factory Code                    |                    |

**B. Industry Approvals**

- |    |                                |  |              |
|----|--------------------------------|--|--------------|
| 1) | Military                       | MIL-W-16878/Type B/N   | 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      | 28 Lbs, Maximum    |  |

**D. Electrical Properties**

- |                                 |                    |   |  |
|---------------------------------|--------------------|---|--|
| (For Engineering purposes only) |                    |   |  |
| 1)                              | Voltage Rating     | 600 V <sub>RMS</sub>                            |  |
| 2)                              | Capacitance        | 44 pf/ft @1 kHz, Nominal Conductor to Conductor |  |
| 3)                              | Ground Capacitance | 79 pf/ft @1 kHz, Nominal                        |  |
| 4)                              | Inductance         | 0.19 µH/ft, Nominal                             |  |
| 5)                              | Conductor DCR      | 15.2 Ω/1000ft @20°C, Nominal                    |  |
| 6)                              | OA Shield DCR      | 4.7 Ω/1000ft @20°C, Nominal                     |  |

**E. Other**

- |    |            |  |  |
|----|------------|--|--|
| 1) | Packaging  |  |  |
|    | a) 1000 FT |  |  |
|    | b) 500 FT  |  |  |
|    | c) 100 FT  |  |  |

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