

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

**Part Number: 2827/6**  
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**Issue: 5**  
**Issue Date: 11/16/2005**  
**Effective Date: 12/30/2005**

**A. Construction**

**Diameters**

- |    |                |                                |       |
|----|----------------|--------------------------------|-------|
| 1) | Component 1    | 6 X 1 COND                     |       |
|    | a) Conductor   | 20 (19/32) AWG SPC             |       |
|    | b) Insulation  | 0.009" Wall, Nom. Teflon(PTFE) | 0.058 |
|    | (1) Color Code | Alpha Wire Color Code G        |       |

Cond	Color	Cond	Color	Cond	Color
1	WHITE	3	RED	5	YELLOW
2	BLACK	4	GREEN	6	BLUE

- |    |                |                                     |                    |
|----|----------------|-------------------------------------|--------------------|
| 2) | Cable Assembly | 6 Components Cabled                 |                    |
|    | a) Twists:     | 4.8 Twists/foot (min)               |                    |
| 3) | Shield         | SPC BRAID Shield,90% Coverage, Min. |                    |
| 4) | Jacket         | 0.012" Wall, Nom.,PTFE Tape         | 0.221 (0.239 Max.) |
|    | a) Color(s)    | WHITE                               |                    |

**B. Industry Approvals**

- |    |                |                        |              |
|----|----------------|------------------------|--------------|
| 1) | Military       |                        |              |
|    | a) Component 1 | MIL-W-16878/4 (Type E) | 200°C / 600V |
| 2) | Other          |                        |              |
|    | a) Component 1 | NEMA HP3-EXBGE         | 200°C / 600V |

- 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 200°C       |  |
| 2) | Bend Radius       | 10X Cable Diameter |  |
| 3) | Pull Tension      | 63 Lbs, Maximum    |  |

**D. Electrical Properties**

- |                                 |                    |   |  |
|---------------------------------|--------------------|---|--|
| (For Engineering purposes only) |                    |   |  |
| 1)                              | Voltage Rating     | 600 V <sub>RMS</sub>                            |  |
| 2)                              | Capacitance        | 27 pf/ft @1 kHz, Nominal Conductor to Conductor |  |
| 3)                              | Ground Capacitance | 49 pf/ft @1 kHz, Nominal                        |  |
| 4)                              | Inductance         | 0.16 µH/ft, Nominal                             |  |
| 5)                              | Conductor DCR      | 8.8 Ω/1000ft @20°C, Nominal                     |  |
| 6)                              | OA Shield DCR      | 4 Ω/1000ft @20°C, Nominal                       |  |

**E. Other**

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

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