

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

**Part Number: 2817/5**  
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**Issue: 5**  
**Issue Date: 11/16/2005**  
**Effective Date: 12/30/2005**

**A. Construction**

**Diameters**

- |                |                                |       |
|----------------|--------------------------------|-------|
| 1) Component 1 | 5 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		

- |                     |   |                    |
|---------------------|---|--------------------|
| 2) Cable Assembly   | 5 Components Cabled                           |                    |
| a) Twists:          | 5.3 Twists/foot (min)                         |                    |
| 3) Shield           | SPC BRAID Shield,90% Coverage, Min.           |                    |
| 4) Jacket           | 0.012" Wall, Nom.,PTFE Impregnated Fiberglass | 0.212 (0.229 Max.) |
| a) Color(s)         | WHITE   |                    |
| b) Jacket Separator | Teflon(skived) Tape, 25% Overlap, Min.        |                    |

**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      | 52 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      | 4.7 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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