

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

**Part Number: 2471**  
**Page 1 of 1 Pages**

**Issue: 5**  
**Issue Date: 1/18/2006**  
**Effective Date: 1/18/2006**

**A. Construction**

**Diameters (In)**

- |                |                                    |       |
|----------------|------------------------------------|-------|
| 1) Component 1 | 1 X 1 PAIR                         |       |
| a) Conductor   | 16 (19/.0117) AWG TC               |       |
| b) Insulation  | 0.032" Wall, Nom. Polyethylene(PE) | 0.123 |
| (1) Color(s)   |                                    |       |
- | Pair | Color        | Pair | Color |
|------|--------------|------|-------|
| 1    | BLACK, CLEAR |      |       |
- |                   |                                    |                    |
|-------------------|------------------------------------|--------------------|
| c) Cabling        | 2 COND Cabled                      |                    |
| (1) Twists:       | 3.4 Twists/foot (min)              |                    |
| 2) Shield:        | Alum/Mylar Tape, 25% Overlap, Min. |                    |
| a) Foil Direction | Foil Facing Out                    |                    |
| b) Drain Wire     | 18 (16/30) AWG TC                  |                    |
| 3) Jacket         | 0.032" Wall, Nom., PVC             | 0.314 (0.329 Max.) |
| a) Color(s)       | SLATE                              |                    |
| b) Print          | ALPHA WIRE-* P/N 2471              |                    |
|                   | RU AWM 2106 60C 600V VW-1 ROHS     |                    |
|                   | * = Factory Code                   |                    |

**B. Industry Approvals**

- |                                   |  |                 |
|-----------------------------------|--|-----------------|
| 1) UL                             | AWM/STYLE 2106   | 60°C / 600 VRMS |
|                                   | VW-1   |                 |
| 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 | -20 to 60°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 53 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |                             |
|-----------------------------|-----------------------------|
| 1) Voltage Rating           | 600 VRMS                    |
| 2) Mutual Capacitance       | 20.5 pf/ft @1 kHz, Nominal  |
| 3) Ground Capacitance       | 37 pf/ft @1 kHz, Nominal    |
| 4) Characteristic Impedance | 75 Ω                        |
| 5) Inductance               | 0.2 μH/ft, Nominal          |
| 6) Conductor DCR            | 4.3 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR            | 7 Ω/1000ft @20°C, Nominal   |

**E. Other**

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

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