

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

**Part Number: 6653**  
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**Issue: 5**  
**Issue Date: 2/13/2006**  
**Effective Date: 3/15/2006**

**A. Construction**

**Diameters**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 3 X 1 COND                        |       |
| a) Conductor   | 18 (7/26) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Irradiated | 0.068 |
| (1) Color Code | Alpha Wire Color Code G           |       |
- 
- | Cond | Color | Cond | Color |
|------|-------|------|-------|
| 1    | WHITE | 2    | BLACK |
| 3    | RED   |      |       |
- 
- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled   |                    |
| a) Twists:        | 6.0 Twists/foot (min)   |                    |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.   |                    |
| 3) Jacket         | 0.032" Wall, Nom.,PVC   | 0.214 (0.224 Max.) |
| a) Color(s)       | WHITE   |                    |
| b) Print          | ALPHA WIRE-* P/N 6653<br>RU AWM 2576 VW-1 80C 150V ROHS<br>* = Factory Code |                    |

**B. Industry Approvals**

- |                                   |  |              |
|-----------------------------------|--|--------------|
| 1) UL                             | AWM/STYLE2576<br>VW-1  | 80°C / 150V  |
| 2) Military                       | MIL-W-16878/Type B   | 105°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 105°C       |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 42 Lbs, Maximum    |

**D. Electrical Properties**

- (For Engineering purposes only)
- |                   |   |
|-------------------|---|
| 1) Voltage Rating | 600 V <sub>RMS</sub>                            |
| 2) Capacitance    | 33 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance     | 0.16 µH/ft, Nominal                             |
| 4) Conductor DCR  | 6.4 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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