

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

**Part Number: 2254**  
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**Issue: 4**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |    |                |                                  |       |
|----|----------------|----------------------------------|-------|
| 1) | Component 1    | 2 X 1 COND                       |       |
|    | a) Conductor   | 22 (7/30) AWG TC                 |       |
|    | b) Insulation  | 0.016" Wall, Nom. PVC            | 0.062 |
|    | (1) Color Code | Alpha Wire Company Color Code D1 |       |

Cond	Color	Cond	Color
1	BLACK	2	RED

- |    |                |   |                    |
|----|----------------|---|--------------------|
| 2) | Cable Assembly | 2 Components Cabled   |                    |
|    | a) Twists:     | 6.9 Twists/foot (min)   |                    |
|    | b) Core Wrap   | Clear Mylar Tape, 25% Overlap, Min.   |                    |
| 3) | Shield         | BC SPIRAL Shield, 95% Coverage, Min.  |                    |
| 4) | Jacket         | 0.020" Wall, Nom., PVC  | 0.177 (0.187 Max.) |
|    | a) Color(s)    | SLATE   |                    |
|    | b) Print       | ALPHA WIRE-* P/N 2254<br>RU AWM 2095 80C 300V VW-1 ROHS<br>* = Factory Code |                    |

**B. Industry Approvals**

- |    |  |                |                 |
|----|--|----------------|-----------------|
| 1) | UL   | AWM/STYLE 2095 | 80°C / 300 VRMS |
| 2) | EU Directive 2002/95/EC(RoHS):<br>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 80°C        |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 13.6 Lbs, Maximum  |

**D. Electrical Properties**

- |                                 |                          |   |
|---------------------------------|--------------------------|---|
| (For Engineering purposes only) |                          |   |
| 1)                              | Voltage Rating           | 300 VRMS  |
| 2)                              | Capacitance              | 43 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3)                              | Ground Capacitance       | 77 pf/ft @1 kHz, Nominal                        |
| 4)                              | Characteristic Impedance | 53 Ω  |
| 5)                              | Inductance               | 0.2 μH/ft, Nominal                              |
| 6)                              | Conductor DCR            | 16.3 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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