

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

**Part Number: 2254/3**  
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**Issue: 5**  
**Issue Date: 9/27/2005**  
**Effective Date: 9/27/2005**

**A. Construction**

**Diameters (In)**

- |                |                                  |       |
|----------------|----------------------------------|-------|
| 1) Component 1 | 3 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	Cond	Color
1	BLACK	2	RED	3	WHITE

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled   |                    |
| a) Twists:        | 6.0 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  | 0.187 (0.197 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Print          | ALPHA WIRE-* P/N 2254/3<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): | 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      | 19.1 Lbs, Maximum  |

**D. Electrical Properties**

- |                                 |   |
|---------------------------------|---|
| (For Engineering purposes only) |   |
| 1) Voltage Rating               | 300 VRMS  |
| 2) Capacitance                  | 39 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance           | 70 pf/ft @1 kHz, Nominal                        |
| 4) Inductance                   | 0.2 µH/ft, Nominal                              |
| 5) Conductor DCR                | 16.3 Ω/1000ft @20°C, Nominal                    |
| 6) OA Shield DCR                | 8.3 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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