

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

Part Number: 9214  
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Issue: 5  
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**A. Construction**

Diameters

- |    |               |                                    |       |
|----|---------------|------------------------------------|-------|
| 1) | Component 1   | 1 X 1 COAX                         |       |
|    | a) Conductor  | 13 (7/.0296) AWG SPC               |       |
|    | b) Insulation | 0.098" Wall, Nom. Polyethylene(PE) | 0.285 |
|    | (1) Color(s)  |                                    |       |

| Cond | Color   | Cond | Color | Cond | Color |
|------|---------|------|-------|------|-------|
| 1    | NATURAL |      |       |      |       |

Individually Applied:

- |    |             |  |                |
|----|-------------|--|----------------|
| c) | Shield      | SPC BRAID Shield,95% Coverage, Min.  |                |
| 2) | Shield      | SPC BRAID Shield,95% Coverage, Min.  |                |
| 3) | Jacket      | 0.042" Wall, Nom.,Type IIA PVC   | 0.425+/- 0.007 |
|    | a) Color(s) | BLACK  |                |
|    | b) Print    | ALPHA WIRE-* P/N 9214<br>RG 214/U RU AWM STYLE 1354 ROHS<br>* = Factory Code |                |

**B. Industry Approvals**

- |    |                                |                      |              |
|----|--------------------------------|----------------------|--------------|
| 1) | UL                             | AWM/STYLE1354        | 60°C / 30V   |
| 2) | Military                       | MIL-C-17/75D,RG214/U | 80°C / 3700V |
| 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 | -15 to 80°C        |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 69 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                           |  |
|----|---------------------------|--|
| 1) | Voltage Rating            | 3700 V <sub>RMS</sub>                      |
| 2) | Characteristic Impedance  | 50 Ω +/- 2                                 |
| 3) | Ground Capacitance        | 30.8 pf/ft @1 kHz, Nominal                 |
| 4) | Velocity of Propagation   | 66 %                                       |
| 5) | Conductor DCR             | 1.7 Ω/1000ft @20°C, Nominal                |
| 6) | OA Shield DCR             | 1.4 Ω/1000ft @20°C, Nominal                |
| 7) | Voltage Withstanding      | 10 kV, Minimum                             |
| 8) | Corona Extinction         | 5 kV, Minimum                              |
| 9) | Attenuation, Max dB/100ft | 5.5 @ 400 MHz<br>19 @ 3 GHz<br>45 @ 10 GHz |

**E. Other**

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

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