

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

Part Number: 9055B  
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Issue: 3  
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**A. Construction**

Diameters

- |    |               |                                    |       |
|----|---------------|------------------------------------|-------|
| 1) | Component 1   | 1 X 1 COAX                         |       |
|    | a) Conductor  | 20 (SOLID) AWG SPC                 |       |
|    | b) Insulation | 0.042" Wall, Nom. Polyethylene(PE) | 0.116 |
|    | (1) Color(s)  |                                    |       |
- 
- | Cond | Color | Cond | Color | Cond | Color |
|------|-------|------|-------|------|-------|
| 1    | CLEAR |      |       |      |       |
- 
- |    |             |   |                |
|----|-------------|---|----------------|
| c) | Cabling     | 1 COAX Cabled   |                |
|    | d) Shield   | TC BRAID Shield,95% Coverage, Min.                          |                |
| 2) | Shield      | TC BRAID Shield,95% Coverage, Min.                          |                |
| 3) | Jacket      | 0.020" Wall, Nom.,Polyethylene (PE)                         | 0.201+/- 0.005 |
|    | a) Color(s) | BLACK   |                |
|    | b) Print    | ALPHA WIRE-* P/N 9055B<br>RG 55B/U ROHS<br>* = Factory Code |                |

**B. Industry Approvals**

- 1) Military MIL-C-17D/26A RG 55B/U
- 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 -55 to 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 17.3 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 1400 V<sub>RMS</sub>
- 2) Characteristic Impedance 53.5 Ω +/- 2.5
- 3) Ground Capacitance 28.8 pf/ft @1 kHz, Nominal
- 4) Velocity of Propagation 66 %
- 5) Conductor DCR 10.1 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 2.5 Ω/1000ft @20°C, Nominal
- 7) Voltage Withstanding 5 kV, Minimum
- 8) Corona Extinction 1.9 kV, Minimum
- 9) Attenuation, Max dB/100ft 4.2 @ 100 MHz  
11.7 @ 400 MHz  
16 @ 1 GHz

**E. Other**

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

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