



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 9008

Construction

| | | | | Diameters (In) | |
|----------------|-------|--|-------|-----------------|-------|
| 1) Component 1 | | 1 X 1 COAX | | | |
| a) Conductor | | 13 (7/21) AWG BC | | 0.086 | |
| b) Insulation | | 0.0995" Wall, Nom. Polyethylene(PE) | | 0.285 | |
| (1) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | CLEAR | | | | |
| 2) Shield | | BC BRAID Shield, 94% Coverage, Min. | | | |
| 3) Jacket | | 0.046" Wall, Nom., Type I PVC | | 0.405 +/- 0.007 | |
| a) Color(s) | | BLACK | | | |
| b) Print | | ALPHA WIRE-* P/N 9008 RG 8/U ROHS * = Factory Code | | | |

Applicable Specifications

| | | |
|-------------|--------------------|------------------------------|
| 1) Military | JAN-C-17A / RG-8/U | 60°C / 3700 V _{RMS} |
|-------------|--------------------|------------------------------|

Environmental

| | |
|-------------------------------------|---|
| 1) EU Directive 2011/65/EU(RoHS2): | |
| | All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for RoHS C of C. |
| 2) REACH Regulation (EC 1907/2006): | |
| | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration. |
| 3) California Proposition 65: | |
| | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

Properties

| | |
|----------------------------------|---------------------------------|
| Physical & Mechanical Properties | |
| 1) Temperature Range | -20 to 60°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 59 Lbs, Maximum |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 3700 V _{RMS} |
| 2) Characteristic Impedance | 52 Ω +/- 2 |
| 3) Ground Capacitance | 29.5 pf/ft @1 kHz, Nominal |
| 4) Velocity of Propagation | 66 % |
| 5) Conductor DCR | 1.9 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 1.29 Ω/1000ft @20°C, Nominal |
| 7) Voltage Withstanding | 10 kV, Minimum |
| 8) Corona Extinction | 5 kV, Minimum |
| 9) Attenuation, Max dB/100ft | 2.3 @ 100 MHz |
| | 6 @ 400 MHz |
| | 20 @ 3 GHz |

Other

| | |
|------------------|---|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 20 x 11 x 8 Continuous length |
| b) 500 FT | 16 x 11 x 8 Continuous length |
| c) 100 FT | 12 x 10 x 5 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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