

Customer Specification

PART NO. 9810

Construction

| | | Diameters (In) | | | |
|----------------|---------|---|-------|----------------|-------|
| 1) Component 1 | | 1 X 1 COAX | | | |
| a) Conductor | | 23 (SOLID) AWG BC | | 0.023 | |
| b) Insulation | | 0.0615" Wall, Nom. Polyethylene(PE) | | 0.146 | |
| (1) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | NATURAL | | | | |
| 2) Shield: | | A/P/A Tape, 25% Overlap, Min. | | | |
| a) Braid | | TC,95% Coverage, Min. | | | |
| 3) Jacket | | 0.023" Wall, Nom., Type IIIA, PE | | 0.220+/- 0.004 | |
| a) Color(s) | | BLACK | | | |
| b) Print | | ALPHA WIRE-* P/N 9810 ROHS * = Factory Code | | | |

Applicable Specifications

| | | |
|-------------|-----------------------|--|
| 1) Military | MIL-C-17/RG 59/U type | |
|-------------|-----------------------|--|

Environmental

| | |
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| 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 | -55 to 80°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 9.3 Lbs, Maximum |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 1700 V _{RMS} |
| 2) Characteristic Impedance | 75 Ω +/- 2 |
| 3) Ground Capacitance | 21 pf/ft @1 kHz, Nominal |
| 4) Velocity of Propagation | 66 % |
| 5) Conductor DCR | 20.4 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 4 Ω/1000ft @20°C, Nominal |
| 7) Voltage Withstanding | 4 kV, Minimum |
| 8) Corona Extinction | 1.9 kV, Minimum |
| 9) SRL | 5 - 216 MHz, 27 db, Minimum |
| | 217 - 850 MHz, 23 db, Minimum |
| 10) Attenuation, Nom dB/100ft | 0.4 @ 1 MHz |
| | 0.84 @ 5 MHz |
| | 1.17 @ 10 MHz |
| | 3.35 @ 100 MHz |
| | 8.3 @ 540 MHz |
| | 11.6 @ 1 GHz |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|------------|-------------------------------------|
| a) 1000 FT | 12 x 10 x 5 Continuous length |
| b) 100 FT | 6.5 x 4 x 2.5 Continuous length |

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| | [Spool dimensions may vary slightly] |
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