

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 9810
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Issue: 3
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A. Construction

Diameters

- | | | | |
|----|---------------|-------------------------------------|-------|
| 1) | Component 1 | 1 X 1 COAX | |
| | a) Conductor | 23 (SOLID) AWG BC | |
| | 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 | |

B. Industry Approvals

- 1) Military MIL-C-17/RG 59/U type
- 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 9.3 Lbs, Maximum
- D. 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

E. Other

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

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