

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 9178B
Page 1 of 1 Pages

Issue: 3
Issue Date: 7/25/2006
Effective Date: 9/19/2006

A. Construction

Diameters

- | 1) | Component 1 | 1 X 1 COAX | | | | | | | | | | | | | |
|--|---------------|-------------------------------------|----------------|------|-------|------|-------|------|-------|---|-------|--|--|--|--|
| | a) Conductor | 30 (7/38) AWG SCW | | | | | | | | | | | | | |
| | b) Insulation | 0.011" Wall, Nom. Teflon(PTFE) | 0.034 | | | | | | | | | | | | |
| | (1) Color(s) | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Cond</th> <th style="width: 30%;">Color</th> <th style="width: 10%;">Cond</th> <th style="width: 30%;">Color</th> <th style="width: 10%;">Cond</th> <th style="width: 10%;">Color</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">CLEAR</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | Cond | Color | Cond | Color | Cond | Color | 1 | CLEAR | | | | |
| Cond | Color | Cond | Color | Cond | Color | | | | | | | | | | |
| 1 | CLEAR | | | | | | | | | | | | | | |
| | 2) Shield | SPC BRAID Shield,94% Coverage, Min. | | | | | | | | | | | | | |
| | 3) Jacket | 0.010" Wall, Nom.,Teflon(FEP) | 0.071+/- 0.004 | | | | | | | | | | | | |
| | a) Color(s) | NATURAL TAN | | | | | | | | | | | | | |

B. Industry Approvals

- 1) Military MIL-C-17/RG 178B/U 200°C / 750V
- 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 200°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 2.15 Lbs, Maximum

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 750 V_{RMS}
- 2) Characteristic Impedance 50 Ω +/- 2
- 3) Ground Capacitance 29.3 pf/ft @1 kHz, Nominal
- 4) Velocity of Propagation 70 %
- 5) Conductor DCR 241 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 14.6 Ω/1000ft @20°C, Nominal
- 7) Voltage Withstanding 2 kV, Minimum
- 8) Corona Extinction 1 kV, Minimum
- 9) Attenuation, Max dB/100ft 29 @ 400 MHz

E. Other

- 1) Packaging
 - a) 1000 FT
 - b) 500 FT
 - c) 100 FT
 - d) Bulk(Made-to-order)

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