

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

Part Number: 9848  
Page 1 of 1 Pages

Issue: 3  
Issue Date: 11/10/2005  
Effective Date: 11/10/2005

**A. Construction**

**Diameters**

- |                |                                      |       |
|----------------|--------------------------------------|-------|
| 1) Component 1 | 1 X 1 COAX                           |       |
| a) Conductor   | 18 (SOLID) AWG BC                    |       |
| b) Insulation  | 0.038" Wall, Nom. Polyethylene, Foam | 0.116 |
| (1) Color(s)   |                                      |       |

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

- |             |   |                |
|-------------|---|----------------|
| 2) Shield   | TC BRAID Shield,95% Coverage, Min.  |                |
| 3) Jacket   | 0.028" Wall, Nom., Type I PVC   | 0.195+/- 0.004 |
| a) Color(s) | BLACK   |                |
| b) Print    | ALPHA WIRE-* P/N 9848<br>RG 58/U RU AWM STYLE 1354 ROHS<br>* = Factory Code |                |

**B. Industry Approvals**

- |             |                       |            |
|-------------|-----------------------|------------|
| 1) UL       | AWM/STYLE1354         | 60°C / 30V |
| 2) Military | MIL-C-17/RG 58/U TYPE |            |

**C. Physical & Mechanical Properties**

- |                      |                    |
|----------------------|--------------------|
| 1) Temperature Range | -20 to 60°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 17.4 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |                              |                              |
|------------------------------|------------------------------|
| 1) Voltage Rating            | 300 V <sub>RMS</sub>         |
| 2) Characteristic Impedance  | 50 Ω +/- 3                   |
| 3) Ground Capacitance        | 26 pf/ft @1 kHz, Nominal     |
| 4) Velocity of Propagation   | 78 %                         |
| 5) Conductor DCR             | 6.4 Ω/1000ft @20°C, Nominal  |
| 6) OA Shield DCR             | 4.5 Ω/1000ft @20°C, Nominal  |
| 7) Attenuation, Max dB/100ft | 15 @ 500 MHz<br>20.7 @ 1 GHz |

**E. Other**

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

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.