ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: 9316 Issue: 5

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Effective Date: 10/6/2009

A. Construction <u>Diameters (In)</u>

1) Component 1 1 X 1 COAX

a) Conductor 25 (7/.0067) AWG SCW 0.020 b) Insulation 0.020" Wall, Nom. Teflon(PTFE) 0.060

(1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	CLEAR				

2) Shield SPC BRAID Shield,94% Coverage, Min.

3) Jacket 0.010" Wall, Nom., Teflon(FEP) 0.098 (0.102 Max.)

a) Color(s) NATURAL TAN

b) Print ALPHA WIRE-* P/N 9316

MIL-DTL-17 M17/113-RG 316 27478 RU AWM 1971

EXXXXX 1C 26 AWG SHIELDED 150C

LLXXXXXX CSA TYPE CMG 60C FT4 ROHS

* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Industry Approvals

1) UL AWM/STYLE 1971 150°C / 125 V_{RMS}

2) CSA International CMG 60°C

FT4

3) Military MIL-C-17/113 RG 316/U 200°C / 900 V_{RMS}

C. Environmental Approvals

1) 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.

2) California Proposition 65: The outer surface materials used in the manufacture of this part meet the

requirements of California Proposition 65.

D. Physical & Mechanical Properties

Temperature Range
 Bend Radius
 Pull Tension
 55 to 200°C
 10X Cable Diameter
 2.11 Lbs. Maximum

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 900 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
 85.8 Ω/1000ft @20°C, Nominal
 6) OA Shield DCR
 85.8 Ω/1000ft @20°C, Nominal

7) Voltage Withstanding 2 kV, Minimum 8) Corona Extinction 1.2 kV, Minimum 9) SRL, db Minimum 30 @ 50 Mhz 30 @ 100 Mhz 23 @ 400 Mhz

23 @ 400 Mhz 21 @ 1Ghz 17@ 3 Ghz 7.5 @ 50 MHz

10) Attenuation, Max dB/100ft 7.5 @ 50 MHz

11 @ 100 MHz 21 @ 400 MHz 58 @ 1 GHz

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F. Other

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

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