

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6039C
Page 1 of 2 Pages

Issue: 5
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- 1) Component 1 9 X 1 PAIR
 - a) Conductor 20 (7/28) AWG TC
 - b) Insulation 0.013" Wall, Nom. Polypropylene(PP) 0.064
 - (1) Color Code Alpha Wire Color Code A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	4	BLACK-BLUE	7	BLACK-ORANGE
2	BLACK-WHITE	5	BLACK-BROWN	8	RED-GREEN
3	BLACK-GREEN	6	BLACK-YELLOW	9	RED-WHITE

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 6.9 Twists/foot (min)
 - Individually Applied:
 - d) Shield: Foil Free Alum/Mylar Tape, 25% Overlap, Min.
 - (1) Foil Direction Foil Facing In
 - (2) Drain Wire 22 (7/30) AWG TC
- 2) Cable Assembly 9 Components Cabled
 - a) Twists: 1.9 Twists/foot (min)
 - b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Jacket 0.063" Wall, Nom.,PVC 0.555 (0.578 Max.)
 - a) Color(s) GRAY
 - b) Print ALPHA WIRE-* P/N 6039C 9PR 20 AWG
SHIELDED 75C (UL) TYPE CM OR AWM 2493 ---
LLXXXXXX CSA TYPE CMG FT4 ROHS

* = Factory Code

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

B. Industry Approvals

- 1) UL AWM/STYLE2493 60°C
 CM 75°C
 VW-1
- 2) CSA International CMG 60°C
 FT4
- 3) 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.
- 4) 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 -20 to 75°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 207 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Characteristic Impedance 61 Ω
- 3) Inductance 0.18 μH/ft, Nominal
- 4) Mutual Capacitance 25 pf/ft @1 kHz, Nominal
- 5) Ground Capacitance 45 pf/ft @1 kHz, Nominal
- 6) Conductor DCR 10.3 Ω/1000ft @20°C, Nominal

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Page 2 of 2 Pages

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7) Ind. Shield DC Resistance 13.8 Ω /1000ft @20°C, Nominal

E. Other

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

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