

ALPHA WIRE COMPANY

CUSTOMER PRODUCT SPECIFICATION

Part Number: 6059C
Page 1 of 2 Pages

Issue: 6
Issue Date: 5/23/2005
Effective Date: 8/1/2005

A. Construction

Diameters (In)

- 1) Component 1 9 X 1 PAIR
 a) Conductor 22 (7/30) AWG TC
 b) Insulation 0.016" Wall, Nom. PVC 0.062
 (1) Color Code Alpha Wire Company 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: 2.0 Twists/foot (min)
 b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
 3) Jacket 0.053" Wall, Nom., PVC 0.522 (0.545 Max.)
 a) Color(s) SLATE
 b) Print ALPHA WIRE-* P/N 6059C 9PR 22 AWG
 SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- 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/STYLE 2464 80°C / 300 V_{RMS}
 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 80°C
 2) Bend Radius 10X Cable Diameter
 3) Pull Tension 148 Lbs, Maximum

D. Electrical Properties

- (For Engineering purposes only)
 1) Voltage Rating 300 V_{RMS}
 2) Mutual Capacitance 43 pf/ft @1 kHz, Nominal
 3) Ground Capacitance 77 pf/ft @1 kHz, Nominal
 4) Characteristic Impedance 53 Ω
 5) Inductance 0.2 μH/ft, Nominal
 6) Conductor DCR 16.6 Ω/1000ft @20°C, Nominal
 7) Component Shield DCR 13.8 Ω/1000ft @20°C, Nominal

E. Other

- 1) Packaging
 a) 1000 FT

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Page 2 of 2 Pages

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- b) 500 FT
- c) 100 FT

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