## ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: 5478C Issue: 5

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A. Construction <u>Diameters</u>

1) Component 1 8 X 1 PAIR

a) Conductor 24 (7/32) AWG TC

b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.044

(1) Color Code Alpha Wire Color Code K

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

c) Pair 2/Cond Cabled Together
(1) Twists: 9.6 Twists/foot (min)
2) Cable Assembly 8 Components Cabled
a) Twists: 3.4 Twists/foot (min)

3) Shield: Alum/Mylar Tape, 25% Overlap, Min.

a) Foil Direction Foil Facing In b) Drain Wire 24 (7/32) AWG TC

4) Jacket 0.035" Wall, Nom., PVC 0.314 (0.332 Max.)

a) Color(s) GRAY

b) Print ALPHA WIRE-\* P/N 5478C 8PR 24 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/STYLE2464
 80°C / 300V

 CM
 75°C

 2) CSA International
 CMG
 60°C

FT4

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 Radius3) Pull Tension10X Cable Diameter60 Lbs, Maximum

**D. Electrical Properties** (For Engineering purposes only)

1) Voltage Rating 300 V<sub>RMS</sub>

2) Mutual Capacitance
 3) Ground Capacitance
 23.1 pf/ft @1 kHz, Nominal
 42 pf/ft @1 kHz, Nominal

Characteristic Impedance 82 Ω

5) Inductance 0.19 µH/ft, Nominal

6) Conductor DCR
 7) OA Shield DCR
 26 Ω/1000ft @20°C, Nominal
 15.9 Ω/1000ft @20°C, Nominal

## E. Other

1) Packaging

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a) 1000 FT

b) 500 FT

c) 100 FT

d) Bulk(Made-to-order)

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