

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5459C
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Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters (In)

- 1) Component 1 9 X 1 PAIR
- a) Conductor 20 (7/28) AWG TC
- b) Insulation 0.016" Wall, Nom. PVC 0.070
- (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: 6.0 Twists/foot (min)
 - 2) Cable Assembly 9 Components Cabled
 - a) Twists: 2.4 Twists/foot (min)
 - b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
 - 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
 - a) Foil Direction Foil Facing In
 - b) Drain Wire 20 (7/28) AWG TC
 - 4) Jacket 0.032" Wall, Nom.,PVC 0.491 (0.512 Max.)
 - a) Color(s) Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White
 - b) Ripcord 1 End 810 Denier Nylon
 - c) Print ALPHA WIRE-* P/N 5459C 9PR 20 AWG
- XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM 2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4
CE ROHS <SEQ FOOTAGE>
* = Factory Code

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

B. Industry Approvals

- 1) UL
 - a) Component 1 AWM/STYLE 1569 105°C / 300 VRMS
 - b) Overall AWM/STYLE 2464 80°C / 300 VRMS
 - CM 105°C
 - VW-1
- 2) CSA International CMG 105°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.
- 5) CE: LVD 73/23/EEC Amendment 93/68/EEC

C. Physical & Mechanical Properties

- 1) Temperature Range -20 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 166 Lbs, Maximum
- 4) Sunlight Resistance Yes

D. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 VRMS
- 2) Mutual Capacitance 32 pf/ft @1 kHz, Nominal

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|-----------------------------|--------------------------------------|
| 3) Ground Capacitance | 58 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 70 Ω |
| 5) Inductance | 0.19 μ H/ft, Nominal |
| 6) Conductor DCR | 10.4 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 6.9 Ω /1000ft @20°C, Nominal |

E. Other

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

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