

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5168C
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Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters (In)

- 1) Component 1 8 X 1 COND
 - a) Conductor 18 (16/30) AWG TC
 - b) Insulation 0.016" Wall, Nom. PVC 0.079
 - (1) Color Code Alpha Wire Company Color Code D
- | Cond | Color | Cond | Color | Cond | Color |
|------|-------|------|--------|------|--------|
| 1 | BLACK | 4 | GREEN | 7 | BROWN |
| 2 | RED | 5 | ORANGE | 8 | YELLOW |
| 3 | WHITE | 6 | BLUE | | |
- 2) Cable Assembly 8 Components Cabled
 - a) Twists: 4.0 Twists/foot (min)
 - b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
 - 3) Shield: A/P/A Tape, 25% Overlap, Min.
 - a) Drain Wire 18 (16/30) AWG TC
 - b) Braid TC, 70% Coverage, Min.
 - 4) Jacket 0.032" Wall, Nom., PVC 0.360 (0.374 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 5168C 8C 18 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 118 Lbs, Maximum
- 4) Sunlight Resistance Yes

D. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 VRMS
- 2) Capacitance 51 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 92 pf/ft @1 kHz, Nominal
- 4) Inductance 0.18 µH/ft, Nominal

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- 5) Conductor DCR 7.2 Ω /1000ft @20°C, Nominal
- 6) OA Shield DCR 2.32 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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