

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5152C
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Issue: 11
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters

- | | | | |
|----|----------------|-------------------------|-------|
| 1) | Component 1 | 2 X 1 COND | |
| | a) Conductor | 20 (7/28) AWG TC | |
| | b) Insulation | 0.016" Wall, Nom. PVC | 0.070 |
| | (1) Color Code | Alpha Wire Color Code D | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

- | | | | |
|----|----------------|--|--------------------|
| 2) | Cable Assembly | 2 Components Cabled | |
| | a) Twists: | 8.0 Twists/foot (min) | |
| | b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) | Shield: | A/P/A Tape, 25% Overlap, Min. | |
| | a) Drain Wire | 20 (7/28) AWG TC | |
| | b) Braid | TC, 70% Coverage, Min. | |
| 4) | Jacket | 0.032" Wall, Nom., PVC | 0.236 (0.246 Max.) |
| | a) Color(s) | Gray, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N 5152C 2C 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/STYLE1569 | 105°C / 300V |
| | b) Overall | AWM/STYLE2464 | 80°C / 300V |
| | | 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 | 30 Lbs, Maximum | |
| 4) | Sunlight Resistance | Yes | |

D. Electrical Properties

- | | | | |
|---------------------------------|--------------------------|---|--|
| (For Engineering purposes only) | | | |
| 1) | Voltage Rating | 300 V _{RMS} | |
| 2) | Capacitance | 48 pf/ft @1 kHz, Nominal Conductor to Conductor | |
| 3) | Ground Capacitance | 86 pf/ft @1 kHz, Nominal | |
| 4) | Characteristic Impedance | 46 Ω | |
| 5) | Inductance | 0.19 μH/ft, Nominal | |
| 6) | Conductor DCR | 10.2 Ω/1000ft @20°C, Nominal | |
| 7) | OA Shield DCR | 3.3 Ω/1000ft @20°C, Nominal | |

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E. Other

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

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