

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5102C
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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 | 22 (7/30) AWG TC | |
| b) Insulation | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color Code | Alpha Wire Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN		

- | | | |
|-------------------|--|--------------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 12.0 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) Drain Wire | 22 (7/30) AWG TC | |
| b) Braid | TC, 70% Coverage, Min. | |
| 4) Jacket | 0.032" Wall, Nom., PVC | 0.196 (0.206 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 5102C 2C 22 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/STYLE10002 | 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 | 19.1 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|---|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 39 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 70 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 48 Ω |
| 5) Inductance | 0.18 μH/ft, Nominal |
| 6) Conductor DCR | 16.4 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 4.6 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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