

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 5052C**  
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**Issue: 10**  
**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
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) | Jacket         | 0.032" Wall, Nom.,PVC  | 0.208 (0.218 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 5052C 2C 20 AWG                                 |                    |

XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS - 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        | 17.5 Lbs, Maximum  |  |
| 4) | Sunlight Resistance | Yes                |  |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                |   |  |
|----|----------------|---|--|
| 1) | Voltage Rating | 300 V <sub>RMS</sub>                            |  |
| 2) | Capacitance    | 30 pf/ft @1 kHz, Nominal Conductor to Conductor |  |
| 3) | Inductance     | 0.19 µH/ft, Nominal                             |  |
| 4) | Conductor DCR  | 10.2 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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