

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

**Part Number: 5010/40C**  
**Page 1 of 2 Pages**

**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 40 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	15	WHITE/YELLOW	29	WHITE/BROWN/ORANGE
2	BROWN	16	WHITE/GREEN	30	WHITE/BROWN/YELLOW
3	RED	17	WHITE/BLUE	31	WHITE/BROWN/GREEN
4	ORANGE	18	WHITE/VIOLET	32	WHITE/BROWN/BLUE
5	YELLOW	19	WHITE/GRAY	33	WHITE/BROWN/VIOLET
6	GREEN	20	WHITE/BLACK/BROWN	34	WHITE/BROWN/GRAY
7	BLUE	21	WHITE/BLACK/RED	35	WHITE/RED/ORANGE
8	VIOLET	22	WHITE/BLACK/ORANGE	36	WHITE/RED/YELLOW
9	GRAY	23	WHITE/BLACK/YELLOW	37	WHITE/RED/GREEN
10	WHITE	24	WHITE/BLACK/GREEN	38	WHITE/RED/BLUE
11	WHITE/BLACK	25	WHITE/BLACK/BLUE	39	WHITE/RED/VIOLET
12	WHITE/BROWN	26	WHITE/BLACK/VIOLET	40	WHITE/RED/GRAY
13	WHITE/RED	27	WHITE/BLACK/GRAY		
14	WHITE/ORANGE	28	WHITE/BROWN/RED		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 40 Components Cabled   |                    |
| a) Twists:        | 2.8 Twists/foot (min)  |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                       |                    |
| 3) Jacket         | 0.032" Wall, Nom.,PVC  | 0.434 (0.457 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 5010/40C 40C 22 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/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        | 220 Lbs, Maximum   |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

- |                   |   |
|-------------------|---|
|                   | (For Engineering purposes only)                   |
| 1) Voltage Rating | 300 V <sub>RMS</sub>                              |
| 2) Capacitance    | 23.5 pf/ft @1 kHz, Nominal Conductor to Conductor |

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- 3) Inductance 0.18  $\mu$ H/ft, Nominal
- 4) Conductor DCR 16.6  $\Omega$ /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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