

# ALPHA WIRE COMPANY

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 5390/40C**  
**Page 1 of 1 Pages**

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

### A. Construction

### Diameters (In)

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

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 40 Components Cabled  |                    |
| a) Twists:        | 1.8 Twists/foot (min)   |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                        |                    |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.                                |                    |
| a) Foil Direction | Foil Facing In  |                    |
| b) Drain Wire     | 18 (16/30) AWG TC   |                    |
| 4) Jacket         | 0.053" Wall, Nom., PVC  | 0.692 (0.720 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 5390/40C 40C 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 |
|----------------------|--------------|

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- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 515 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  $\mu$ H/ft, Nominal
- 5) Conductor DCR 7.3  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR 5.1  $\Omega$ /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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