

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5160/40C
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 20 (7/28) AWG TC
- b) Insulation 0.016" Wall, Nom. PVC 0.070
- (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: 2.0 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 0.053" Wall, Nom., PVC 0.656 (0.683 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 5160/40C 40C 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/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 373 Lbs, Maximum
- 4) Sunlight Resistance Yes

D. Electrical Properties

- 1) Voltage Rating 300 VRMS
- 2) Capacitance 44 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 79 pf/ft @1 kHz, Nominal
- 4) Inductance 0.19 μ H/ft, Nominal
- 5) Conductor DCR 10.4 Ω /1000ft @20°C, Nominal
- 6) OA Shield DCR 1.14 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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