

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5100/70C
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Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters (In)

- 1) Component 1 70 X 1 COND
 - a) Conductor 24 (7/32) AWG TC
 - b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid
 - (1) Color Code Alpha Wire Company Color Code E

0.044

Cond	Color	Cond	Color	Cond	Color
1	BLACK	25	WHITE/BLACK/BLUE	49	WHITE/YELLOW/SLATE
2	BROWN	26	WHITE/BLACK/VIOLET	50	WHITE/GREEN/BLUE
3	RED	27	WHITE/BLACK/SLATE	51	WHITE/GREEN/VIOLET
4	ORANGE	28	WHITE/BROWN/RED	52	WHITE/GREEN/SLATE
5	YELLOW	29	WHITE/BROWN/ORANGE	53	WHITE/BLUE/VIOLET
6	GREEN	30	WHITE/BROWN/YELLOW	54	WHITE/BLUE/SLATE
7	BLUE	31	WHITE/BROWN/GREEN	55	WHITE/VIOLET/SLATE
8	VIOLET	32	WHITE/BROWN/BLUE	56	WHITE/BLACK/BROWN/RED
9	SLATE	33	WHITE/BROWN/VIOLET	57	WHITE/BLACK/BROWN/ORANGE
10	WHITE	34	WHITE/BROWN/SLATE	58	WHITE/BLACK/BROWN/YELLOW
11	WHITE/BLACK	35	WHITE/RED/ORANGE	59	WHITE/BLACK/BROWN/GREEN
12	WHITE/BROWN	36	WHITE/RED/YELLOW	60	WHITE/BLACK/BROWN/BLUE
13	WHITE/RED	37	WHITE/RED/GREEN	61	WHITE/BLACK/BROWN/VIOLET
14	WHITE/ORANGE	38	WHITE/RED/BLUE	62	WHITE/BLACK/BROWN/SLATE
15	WHITE/YELLOW	39	WHITE/RED/VIOLET	63	WHITE/BLACK/RED/YELLOW
16	WHITE/GREEN	40	WHITE/RED/SLATE	64	WHITE/BLACK/RED/GREEN
17	WHITE/BLUE	41	WHITE/ORANGE/YELLOW	65	WHITE/BLACK/RED/BLUE
18	WHITE/VIOLET	42	WHITE/ORANGE/GREEN	66	WHITE/BLACK/RED/VIOLET
19	WHITE/SLATE	43	WHITE/ORANGE/BLUE	67	WHITE/BLACK/RED/SLATE
20	WHITE/BLACK/BROWN	44	WHITE/ORANGE/VIOLET	68	WHITE/BLACK/ORANGE/YELLOW
21	WHITE/BLACK/RED	45	WHITE/ORANGE/SLATE	69	WHITE/BLACK/ORANGE/GREEN
22	WHITE/BLACK/ORANGE	46	WHITE/YELLOW/GREEN	70	WHITE/BLACK/ORANGE/BLUE
23	WHITE/BLACK/YELLOW	47	WHITE/YELLOW/BLUE		
24	WHITE/BLACK/GREEN	48	WHITE/YELLOW/VIOLET		

- 2) Cable Assembly 70 Components Cabled
 - a) Twists: 2.4 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 24 (7/32) AWG TC
- 4) Jacket 0.032" Wall, Nom.,PVC 0.505 (0.534 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 5100/70C 70C 24 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 10002 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

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- 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 250 Lbs, Maximum
 - 4) Sunlight Resistance Yes
- D. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
 - 2) Capacitance 32 pf/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Ground Capacitance 58 pf/ft @1 kHz, Nominal
 - 4) Inductance 0.19 µH/ft, Nominal
 - 5) Conductor DCR 26 Ω/1000ft @20°C, Nominal
 - 6) OA Shield DCR 11.6 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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