

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 820223
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Issue: 5
Issue Date: 5/3/2011
Effective Date: 5/3/2011

A. Construction

- | | | <u>Diameters (In)</u> |
|----------------|--|-----------------------|
| 1) Component 1 | 50 X 1 COND | |
| a) Conductor | 18 (41/34) AWG TC | 0.047 |
| b) Insulation | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON | 0.089 |
| (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	WHITE/BLACK	18	WHITE/RED/BLACK	35	WHITE/YELLOW/BROWN
2	WHITE/BROWN	19	WHITE/BROWN/GRAY	36	WHITE/YELLOW/BLACK
3	WHITE/RED	20	WHITE/BROWN/VIOLET	37	WHITE/ORANGE/GRAY
4	WHITE/ORANGE	21	WHITE/BROWN/BLUE	38	WHITE/ORANGE/VIOLET
5	WHITE/YELLOW	22	WHITE/BROWN/GREEN	39	WHITE/ORANGE/BLUE
6	WHITE/BLACK/YELLOW	23	WHITE/BROWN/YELLOW	40	WHITE/ORANGE/GREEN
7	WHITE/BLACK/ORANGE	24	WHITE/BROWN/ORANGE	41	WHITE/ORANGE/YELLOW
8	WHITE/BLACK/RED	25	WHITE/BROWN/RED	42	WHITE/ORANGE/ORANGE
9	WHITE/BLACK/BROWN	26	WHITE/BROWN/BROWN	43	WHITE/ORANGE/RED
10	WHITE/BLACK/BLACK	27	WHITE/BROWN/BLACK	44	WHITE/ORANGE/BROWN
11	WHITE/GRAY	28	WHITE/BLACK/GRAY	45	WHITE/ORANGE/BLACK
12	WHITE/VIOLET	29	WHITE/BLACK/VIOLET	46	WHITE/RED/GRAY
13	WHITE/BLUE	30	WHITE/BLACK/BLUE	47	WHITE/RED/VIOLET
14	WHITE/GREEN	31	WHITE/RED/ORANGE	48	WHITE/RED/BLUE
15	WHITE/BLACK/GREEN	32	WHITE/YELLOW/YELLOW	49	WHITE/RED/GREEN
16	WHITE/RED/RED	33	WHITE/YELLOW/ORANGE	50	WHITE/RED/YELLOW
17	WHITE/RED/BROWN	34	WHITE/YELLOW/RED		

- | | | |
|-------------------|---|----------------|
| 2) Cable Assembly | 50 Components Cabled | |
| a) Twists: | 1.1 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.063" Wall, Nom., Polyurethane (TPU) | 0.880+/- 0.048 |
| a) Color(s) | BLACK | |
| b) Print | G & L M.1301.0520/ALPHA WIRE-* P/N 820223 50/C 18
AWG RU AWM STYLE 20234 80C 600V (DATE CODE)
(LOT #)
* = Factory Code | |

B. Applicable Specifications

- | | | |
|-------|-----------------|-----------------------------|
| 1) UL | AWM/STYLE 20234 | 80°C / 600 V _{RMS} |
|-------|-----------------|-----------------------------|

C. Environmental Compliance

- 1) 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.
- 2) REACH Regulation (EC 1907/2006):
This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.

D. Physical & Mechanical Properties

- 1) Temperature Range -25 to 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 639 Lbs, Maximum

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 600 V_{RMS}
 - 2) Capacitance 29 pf/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Inductance 0.19 µH/ft, Nominal
 - 4) Conductor DCR 7.1 Ω/1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

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Accepted By:	Date:
Company:	Title:

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