

**ALPHA WIRE  
CUSTOMER PRODUCT SPECIFICATION**

<b>Part Number: IN1003043</b>	<b>Issue: 1</b>
<b>Page 1 of 2 Pages</b>	<b>Issue Date: 3/17/2010</b>
	<b>Effective Date: 3/17/2010</b>

- A. Construction** Diameters (In)
- 1) Component 1 16 X 1 COND
  - a) Conductor 20 (10/30) AWG TC 0.037
  - b) Insulation 0.0325" Wall, Nom. PVC 0.102
  - (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	WHITE	7	WHITE	13	BLACK
2	WHITE	8	WHITE	14	BLACK
3	WHITE	9	BLACK	15	BLACK
4	WHITE	10	BLACK	16	BLACK
5	WHITE	11	BLACK		
6	WHITE	12	BLACK		

- 2) Cable Assembly 16 Components Cabled
- a) Twists: 2.1 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 0.063" Wall, Nom., PVC 0.638 (0.669 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 IN1003043 16C 20 AWG
- XTRAGUARD(R) 1 XTREME PERFORMANCE FOR XTREME
- ENVIRONMENTS (UL) MTW 600V OR AWM 2501 VW-1 --
- LLXXXXXX CSA AWM I/A/B IIA/B 105C 600
- VOLTS 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 1015 105°C / 600 V<sub>RMS</sub>
  - MTW 90°C Dry / 60°C Wet / 600 V<sub>RMS</sub>
  - b) Overall MTW 90°C Dry / 60°C Wet / 600 V<sub>RMS</sub>
  - AWM/STYLE 2501 105°C / 600 V<sub>RMS</sub>
  - VW-1
- 2) CSA International
  - a) Component 1 TEW 105°C / 600 V<sub>RMS</sub>
  - b) Overall AWM I/II A/B 105°C / 600 V<sub>RMS</sub>
  - FT4
- 3) CE: LVD 73/23/EEC Amendment 93/68/EEC

**C. Environmental Approvals**

- 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) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**D. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 143 Lbs, Maximum
- 4) Sunlight Resistance Yes

**E. Electrical Properties**

- 1) Voltage Rating (For Engineering purposes only)
- 600 V<sub>RMS</sub>

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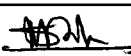
- |                       |   |
|-----------------------|---|
| 2) Capacitance        | 31 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 56 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.24 $\mu$ H/ft, Nominal                        |
| 5) Conductor DCR      | 11.6 $\Omega$ /1000ft @20°C, Nominal            |
| 6) OA Shield DCR      | 1.82 $\Omega$ /1000ft @20°C, Nominal            |

**F. Other**

- |                        |                                     |
|------------------------|-------------------------------------|
| 1) Packaging           | Flange x Traverse x Barrel (inches) |
| a) 1000 FT             | 30 x 14 x 12 Continuous length      |
| b) 500 FT              | 24 x 14 x 12 Continuous length      |
| c) 100 FT              | 16 x 11 x 8 Continuous length       |
| d) Bulk(Made-to-order) |                                     |

*[Spool dimensions may vary slightly]*

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

Accepted By:  (SANDEEP MELOTH)	Date: 19 <sup>TH</sup> MARCH 2010
Company: HONEYWELL	Title: PROJECT LEADER

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