

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: IN1001017
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Issue: 2
Issue Date: 3/17/2010
Effective Date: 3/17/2010

A. Construction

- | | | |
|----------------|------------------------|-----------------------|
| 1) Component 1 | 12 X 1 COND | <u>Diameters (In)</u> |
| 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	5	WHITE	9	BLACK
2	WHITE	6	WHITE	10	BLACK
3	WHITE	7	BLACK	11	BLACK
4	WHITE	8	BLACK	12	BLACK

- | | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 12 Components Cabled | |
| a) Twists: | 2.4 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 | 0.582 (0.610 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 IN1001017 12C 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 _{RMS} |
| | MTW | 90°C Dry / 60°C Wet / 600 V _{RMS} |
| b) Overall | MTW | 90°C Dry / 60°C Wet / 600 V _{RMS} |
| | AWM/STYLE 2501 | 105°C / 600 V _{RMS} |
| | VW-1 | |
| 2) CSA International | | |
| a) Component 1 | TEW | 105°C / 600 V _{RMS} |
| b) Overall | AWM I/II A/B | 105°C / 600 V _{RMS} |
| | 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 | 112 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|-----------------------|-------------------------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 31 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 56 pf/ft @1 kHz, Nominal |

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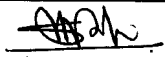
- 4) Inductance 0.24 μ H/ft, Nominal
- 5) Conductor DCR 11.6 Ω /1000ft @20°C, Nominal
- 6) OA Shield DCR 1.67 Ω /1000ft @20°C, Nominal

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 MEHTA)	Date: 19 TH MARCH 2010
Company: HONEYWELL	Title: PROJECT LEADER

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