

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 5430/12
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Issue: 12
Issue Date: 6/12/2008
Effective Date: 7/1/2008

A. Construction

Diameters (In)

- 1) Component 1 12 X 1 COND
- a) Conductor 18 (16/30) AWG TC
- b) Insulation 0.032" Wall, Nom. PVC 0.111
- (1) Color Code Alpha Wire Company Color Code E

Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	YELLOW	9	SLATE
2	BROWN	6	GREEN	10	WHITE
3	RED	7	BLUE	11	WHITE/BLACK
4	ORANGE	8	VIOLET	12	WHITE/BROWN

- 2) Cable Assembly 12 Components Cabled
- a) Twists: 2.2 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 18 (16/30) AWG TC
- 4) Jacket 0.063" Wall, Nom.,PVC 0.595 (0.624 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 5430/12 12C 18 AWG

XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS (UL) MTW 600V OR AWM 2501 VW-1 --- LLXXXXXX CSA AWM IA/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 VRMS
 - MTW 90°C / 600 VRMS
 - b) Overall MTW 90°C / 600 VRMS
 - AWM/STYLE 2501 105°C / 600 VRMS
 - VW-1
- 2) CSA International
 - a) Component 1 TEW 105°C / 600 VRMS
 - b) Overall AWM I/II A/B 105°C / 600 VRMS
 - 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
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 163 Lbs, Maximum
- 4) Sunlight Resistance Yes

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D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------|---|
| 1) Voltage Rating | 600 VRMS |
| 2) Capacitance | 36 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 65 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.22 μ H/ft, Nominal |
| 5) Conductor DCR | 7.2 Ω /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 5.4 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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