

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 5419/12**  
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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 20 (10/30) AWG TC  
 b) Insulation 0.0325" Wall, Nom. PVC 0.102  
 (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: 2.4 Twists/foot (min)  
 b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.  
 3) Jacket 0.063" Wall, Nom.,PVC 0.554 (0.582 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 5419/12 12C 20 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 94 Lbs, Maximum  
 4) Sunlight Resistance Yes

**D. Electrical Properties**

- (For Engineering purposes only)  
 1) Voltage Rating 600 VRMS  
 2) Capacitance 23.5 pf/ft @1 kHz, Nominal Conductor to Conductor

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- 3) Inductance 0.24  $\mu$ H/ft, Nominal
- 4) Conductor DCR 11.6  $\Omega$ /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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