

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

**Part Number: 5499/19C**  
**Page 1 of 1 Pages**

**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters (In)**

- 1) Component 1 19 X 1 PAIR
- a) Conductor 24 (7/32) AWG TC
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.044
- (1) Color Code Alpha Wire Company Color Code B

| Pair | Color        | Pair | Color        | Pair | Color        |
|------|--------------|------|--------------|------|--------------|
| 1    | WHITE-BLACK  | 8    | WHITE-VIOLET | 15   | BLACK-BLUE   |
| 2    | WHITE-BROWN  | 9    | WHITE-SLATE  | 16   | BLACK-VIOLET |
| 3    | WHITE-RED    | 10   | BLACK-BROWN  | 17   | BLACK-SLATE  |
| 4    | WHITE-ORANGE | 11   | BLACK-RED    | 18   | BROWN-RED    |
| 5    | WHITE-YELLOW | 12   | BLACK-ORANGE | 19   | BROWN-ORANGE |
| 6    | WHITE-GREEN  | 13   | BLACK-YELLOW |      |              |
| 7    | WHITE-BLUE   | 14   | BLACK-GREEN  |      |              |

- c) Pair 2/Cond Cabled Together
- (1) Twists: 9.6 Twists/foot (min)
- 2) Cable Assembly 19 Components Cabled
- a) Twists: 2.8 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 24 (7/32) AWG TC
- 4) Jacket 0.032" Wall, Nom.,PVC 0.433 (0.458 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 5499/19C 19PR 24 AWG  
XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME  
ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM  
2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG 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 10002 105°C / 300 VRMS
  - b) Overall AWM/STYLE 2464 80°C / 300 VRMS
  - CM 105°C
  - VW-1
- 2) CSA International CMG 105°C
- 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 137 Lbs, Maximum
- 4) Sunlight Resistance Yes

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- D. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 300 VRMS
  - 2) Mutual Capacitance 23.1 pf/ft @1 kHz, Nominal
  - 3) Ground Capacitance 42 pf/ft @1 kHz, Nominal
  - 4) Characteristic Impedance 82  $\Omega$
  - 5) Inductance 0.19  $\mu$ H/ft, Nominal
  - 6) Conductor DCR 26  $\Omega$ /1000ft @20°C, Nominal
  - 7) OA Shield DCR 13.4  $\Omega$ /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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