

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

**Part Number: 5499/15C**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- 1) Component 1 15 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	6	WHITE-GREEN	11	BLACK-RED
2	WHITE-BROWN	7	WHITE-BLUE	12	BLACK-ORANGE
3	WHITE-RED	8	WHITE-VIOLET	13	BLACK-YELLOW
4	WHITE-ORANGE	9	WHITE-SLATE	14	BLACK-GREEN
5	WHITE-YELLOW	10	BLACK-BROWN	15	BLACK-BLUE

- c) Pair 2/Cond Cabled Together
- (1) Twists: 9.6 Twists/foot (min)
- 2) Cable Assembly 15 Components Cabled
- a) Twists: 3.0 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 0.405 (0.428 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 5499/15C 15PR 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 109 Lbs, Maximum
- 4) Sunlight Resistance Yes

**D. Electrical Properties**

- 1) Voltage Rating (For Engineering purposes only) 300 VRMS

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- |                             |                                      |
|-----------------------------|--------------------------------------|
| 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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