

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5491C
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Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters (In)

- | | | | |
|----|----------------|-----------------------------------|-------|
| 1) | Component 1 | 1 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
1	WHITE-BLACK		

- | | | | |
|----|-------------------|---|--------------------|
| c) | Cabling | 2 COND Cabled | |
| | (1) Twists: | 13.7 Twists/foot (min) | |
| | (2) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 2) | Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| | a) Foil Direction | Foil Facing In | |
| | b) Drain Wire | 24 (7/32) AWG TC | |
| 3) | Jacket | 0.032" Wall, Nom., PVC | 0.160 (0.170 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 5491C 1PR 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 | 10.6 Lbs, Maximum | |
| 4) | Sunlight Resistance | Yes | |

D. Electrical Properties

(For Engineering purposes only)

- | | | | |
|----|--------------------------|--------------------------|--|
| 1) | Voltage Rating | 300 VRMS | |
| 2) | Mutual Capacitance | 35 pf/ft @1 kHz, Nominal | |
| 3) | Ground Capacitance | 63 pf/ft @1 kHz, Nominal | |
| 4) | Characteristic Impedance | 54 Ω | |
| 5) | Inductance | 0.19 μH/ft, Nominal | |

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- 6) Conductor DCR 25 Ω /1000ft @20°C, Nominal
- 7) OA Shield DCR 23.5 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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