

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5542
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Issue: 13
Issue Date: 6/12/2008
Effective Date: 7/1/2008

A. Construction

Diameters (In)

- | | | |
|----------------|---------------------------------|-------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 14 (41/30) AWG TC | |
| b) Insulation | 0.032" Wall, Nom. PVC | 0.138 |
| (1) Color Code | Alpha Wire Company Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN		

- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 3.7 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) Drain Wire | 14 (41/30) AWG TC | |
| b) Braid | TC, 70% Coverage, Min. | |
| 4) Jacket | 0.063" Wall, Nom., PVC | 0.434 (0.452 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 5542 2C 14 AWG
XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME
ENVIRONMENTS (UL) MTW 600V OR AWM 2501 VW-1 ---
LLXXXXXX CSA AWM IIA/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 | 103 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

D. Electrical Properties

- | | |
|-------------------|---|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 VRMS |
| 2) Capacitance | 50 pf/ft @1 kHz, Nominal Conductor to Conductor |

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- | | |
|-----------------------------|--------------------------------------|
| 3) Ground Capacitance | 90 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 45 Ω |
| 5) Inductance | 0.19 μ H/ft, Nominal |
| 6) Conductor DCR | 2.8 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 1.33 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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