

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5523
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Issue: 13
Issue Date: 6/12/2008
Effective Date: 7/1/2008

A. Construction

Diameters (In)

- | | | | |
|-----|-------------|---------------------------------|-------|
| 1) | Component 1 | 3 X 1 COND | |
| a) | Conductor | 18 (16/30) AWG TC | |
| b) | Insulation | 0.032" Wall, Nom. PVC | 0.111 |
| (1) | Color Code | Alpha Wire Company Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN	3	RED

- | | | | |
|----|----------------|---|--------------------|
| 2) | Cable Assembly | 3 Components Cabled | |
| a) | Twists: | 4.4 Twists/foot (min) | |
| b) | Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) | Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) | Drain Wire | 18 (16/30) AWG TC | |
| b) | Braid | TC, 70% Coverage, Min. | |
| 4) | Jacket | 0.063" Wall, Nom., PVC | 0.397 (0.416 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 5523 3C 18 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 | 56 Lbs, Maximum |
| 4) | Sunlight Resistance | Yes |

D. Electrical Properties

- | | | |
|----|----------------|---|
| | | (For Engineering purposes only) |
| 1) | Voltage Rating | 600 VRMS |
| 2) | Capacitance | 36 pf/ft @1 kHz, Nominal Conductor to Conductor |

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|-----------------------|--------------------------------------|
| 3) Ground Capacitance | 65 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.22 μ H/ft, Nominal |
| 5) Conductor DCR | 7.2 Ω /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 2.32 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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