

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5549/12
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Issue: 12
Issue Date: 6/12/2008
Effective Date: 7/1/2008

A. Construction

Diameters (In)

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

- 2) Cable Assembly 12 Components Cabled
 a) Twists: 1.8 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 0.083" Wall, Nom., PVC 0.777 (0.807 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 5549/12 12C 14 AWG
 XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME
 ENVIRONMENTS (UL) MTW 600V OR AWM 2501 VW-1 ---
 LLXXXXXX CSA AWM IA/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 433 Lbs, Maximum
 4) Sunlight Resistance Yes

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D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------|---|
| 1) Voltage Rating | 600 VRMS |
| 2) Capacitance | 46 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 83 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 μ H/ft, Nominal |
| 5) Conductor DCR | 2.8 Ω /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 0.93 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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