

ALPHA WIRE COMPANY

CUSTOMER PRODUCT SPECIFICATION

Part Number: 5279/27C
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Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters (In)

- 1) Component 1 27 X 1 PAIR
 - a) Conductor 24 (7/32) AWG TC
 - b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid
 - (1) Color Code Alpha Wire Company Color Code B

0.044

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	10	BLACK-BROWN	19	BROWN-ORANGE
2	WHITE-BROWN	11	BLACK-RED	20	BROWN-YELLOW
3	WHITE-RED	12	BLACK-ORANGE	21	BROWN-GREEN
4	WHITE-ORANGE	13	BLACK-YELLOW	22	BROWN-BLUE
5	WHITE-YELLOW	14	BLACK-GREEN	23	BROWN-VIOLET
6	WHITE-GREEN	15	BLACK-BLUE	24	BROWN-SLATE
7	WHITE-BLUE	16	BLACK-VIOLET	25	RED-ORANGE
8	WHITE-VIOLET	17	BLACK-SLATE	26	RED-YELLOW
9	WHITE-SLATE	18	BROWN-RED	27	RED-GREEN

- c) Pair 2/Cond Cabled Together
- (1) Twists: 9.6 Twists/foot (min)
- 2) Cable Assembly 27 Components Cabled
 - a) Twists: 2.3 Twists/foot (min)
 - b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Shield: A/P/A Tape, 25% Overlap, Min.
 - a) Drain Wire 24 (7/32) AWG TC
 - b) Braid TC, 70% Coverage, Min.
- 4) Jacket 0.032" Wall, Nom., PVC 0.540 (0.570 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 5279/27C 27PR 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 202 Lbs, Maximum

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- 4) Sunlight Resistance Yes
- D. Electrical Properties** (For Engineering purposes only)
 - 1) Voltage Rating 300 V_{RMS}
 - 2) Mutual Capacitance 23.1 pf/ft @1 kHz, Nominal
 - 3) Ground Capacitance 42 pf/ft @1 kHz, Nominal
 - 4) Characteristic Impedance 82 Ω
 - 5) Inductance 0.19 μ H/ft, Nominal
 - 6) Conductor DCR 26 Ω /1000ft @20°C, Nominal
 - 7) OA Shield DCR 1.93 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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