

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5129/27C
Page 1 of 1 Pages

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 22 (7/30) AWG TC
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.050
- (1) Color Code Alpha Wire Company Color Code B

| 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: 8.0 Twists/foot (min)
- 2) Cable Assembly 27 Components Cabled
- a) Twists: 2.0 Twists/foot (min)
- b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Shield: A/P/A Tape, 25% Overlap, Min.
- a) Drain Wire 22 (7/30) AWG TC
- b) Braid TC, 70% Coverage, Min.
- 4) Jacket 0.053" Wall, Nom., PVC 0.649 (0.682 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 5129/27C 27PR 22 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 317 Lbs, Maximum

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5129/27C
Page 2 of 1 Pages

Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

- 4) Sunlight Resistance Yes
- D. Electrical Properties** (For Engineering purposes only)
 - 1) Voltage Rating 300 V_{RMS}
 - 2) Mutual Capacitance 24.9 pf/ft @1 kHz, Nominal
 - 3) Ground Capacitance 45 pf/ft @1 kHz, Nominal
 - 4) Characteristic Impedance 77 Ω
 - 5) Inductance 0.18 μH/ft, Nominal
 - 6) Conductor DCR 16.7 Ω/1000ft @20°C, Nominal
 - 7) OA Shield DCR 1.16 Ω/1000ft @20°C, Nominal
- E. Other**
 - 1) Packaging
 - a) 1000 FT
 - b) 500 FT
 - c) 100 FT
 - d) Bulk(Made-to-order)

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.