
ALPHA WIRE COMPANY
CDC PRODUCT SPECIFICATION

Part Number: CDC5407
Page 1 of 1 Pages

Issue: 0
Issue Date: 10/13/2008

A. Construction

Diameters

- 1) Component 1 18 X 1 PAIR
 - a) Conductor 22 (7/30) AWG TC
 - b) Insulation 0.010" Wall, Nom. SR-PVC
 - (1) Color Code ALPHA WIRE COLOR CODE A
 - c) Pair 2/Cond Cabled Together
- 2) Cable Assembly 18 Components
 - a) Core Wrap NWP Tape, 25% Overlap, Min.
- 3) Shield: AM Foil Tape, 25% Overlap, Min.
 - a) Drain Wire 22 (7/30) AWG TC
- 4) Jacket 0.032" Wall, Nom., XG1PVC
 - a) Color GRAY
- 5) Packaging 1000FT PUTUP

B. Industry Approvals

- 1) UL AWM/STYLE2464
 CM
 VW-1
- 2) CSA CMG
 FT4
- 3) MIL NONE
- 4) CE Compliant YES
- 5) ROHS Compliant YES

C. Physical & Mechanical Properties

- 1) Temperature 80 C

D. Electrical Properties

- 1) Voltage Rating 300 V_{RMS}

E. Other

- 1) Requested Quantity 125,000Ft.

Application Notes

22 AWG, 18PR. UL 2464 300V W/ FOIL SHIELD BASED ON A ONE SHOT PURCHASE OF 125K

CUSTOM PRODUCTS ARE NON-CANCELLABLE & NON-RETURNABLE EXCEPT FOR MANUFACTURING DEFECTS

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 810267
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Issue: 1
Issue Date: 11/3/2008
Effective Date: 12/29/2008

A. Construction

Diameters

- 1) Component 1 18 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 A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	7	BLACK-ORANGE	13	RED-ORANGE
2	BLACK-WHITE	8	RED-GREEN	14	GREEN-BLUE
3	BLACK-GREEN	9	RED-WHITE	15	GREEN-WHITE
4	BLACK-BLUE	10	RED-BLUE	16	GREEN-BROWN
5	BLACK-BROWN	11	RED-YELLOW	17	GREEN-ORANGE
6	BLACK-YELLOW	12	RED-BROWN	18	GREEN-YELLOW

- c) Pair 2/Cond Cabled Together
- (1) Twists: 8.0 Twists/foot (min)
- 2) Cable Assembly 18 Components Cabled
 - a) Twists: 2.5 Twists/foot (min)
 - b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
 - a) Foil Direction Foil Facing In
 - b) Drain Wire 22 (7/30) AWG TC
- 4) Jacket 0.032" Wall, Nom., PVC 0.483 (0.508 Max.)
 - a) Color(s) GRAY
 - b) Ripcord 1 End 810 Denier Nylon
 - c) Print ALPHA WIRE-* P/N 810267 18PR 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/STYLE10002 105°C / 300V
 - b) Overall AWM/STYLE2464 80°C / 300V
 - 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 203 Lbs, Maximum
- 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

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- 3) Ground Capacitance 45 pf/ft @1 kHz, Nominal
 - 4) Characteristic Impedance 77 Ω
 - 5) Inductance 0.18 μ H/ft, Nominal
 - 6) Conductor DCR 16.7 Ω /1000ft @20°C, Nominal
 - 7) OA Shield DCR 9.3 Ω /1000ft @20°C, Nominal
- E. Other**
- 1) Packaging
 - a) Bulk(Made-to-order)

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