

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 65812**  
**Page 1 of 1 Pages**

**Issue: 7**  
**Issue Date: 2/7/2007**  
**Effective Date: 2/16/2007**

**A. Construction**

**Diameters (In)**

- 1) Component 1 12 X 1 COND
- a) Conductor 18 (16/30) AWG BC
- b) Insulation 0.022" Wall, Nom. PVC 0.091
- (1) Print NUMBER ONLY UNDERLINED - ALTERNATE INVERTED
- REPEAT AT 1 INCH SPACING(CTR. TO CTR.)
- (2) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	5	BLACK #5	9	BLACK #9
2	BLACK #2	6	BLACK #6	10	BLACK #10
3	BLACK #3	7	BLACK #7	11	BLACK #11
4	BLACK #4	8	BLACK #8	12	YELLOW/GREEN

- 2) Cable Assembly 12 Components Cabled
- a) Twists: 2.7 Twists/foot (min)
- 3) Jacket 0.043" Wall, Nom.,PVC, Oil Resistant 0.470+/- 0.025
- a) Color(s) SLATE
- b) Jacket Separator Tissue Tape, 25% Overlap, Min.
- c) Print ALPHA WIRE-\* P/N 65812 12C 18 AWG
- XTRAGUARD FLEXIBLE CONTROL CABLE XTREME
- PERFORMANCE FOR XTREME ENVIRONMENTS - RU AWM 2587
- LLXXXXXX CSA AWM IA/B IIA/B FT1 90C 600V
- 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 AWM/STYLE 2587 90°C / 600 V<sub>RMS</sub>
- 2) CSA International AWM I/II A/B 90°C / 600 V<sub>RMS</sub>
- FT1
- 3) Other VDE 0472, Section 803 Oil Test
- 4) 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.

- 5) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.
- 6) CE: LVD 73/23/EEC Amendment 93/68/EEC

**C. Physical & Mechanical Properties**

- 1) Temperature Range -40 to 90°C(static), -5 to 90°C (dynamic)
- 2) Bend Radius 5X Cable Diameter(static), 5X Cable Diameter(dynamic)
- 3) Pull Tension 151 Lbs, Maximum

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 600 V<sub>RMS</sub>
- 2) Capacitance 30 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Inductance 0.19 µH/ft, Nominal
- 4) Conductor DCR 6.7 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT

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: 65812**  
**Page 2 of 1 Pages**

**Issue: 7**  
**Issue Date: 2/7/2007**  
**Effective Date: 2/16/2007**

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.