# ALPHA WIRE COMPANY
## CUSTOMER PRODUCT SPECIFICATION

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|---|---|---|---|
| **Part Number: 65012** | | **Issue:** | **7** |
| **Page 1 of 1 Pages** | | **Issue Date:** | **2/7/2007** |
| | | **Effective Date:** | **2/16/2007** |

**A. Construction** **Diameters (In)**

1) Component 1 — 12 X 1 COND
   a) Conductor — 20 (10/30) AWG BC
   b) Insulation — 0.022" Wall, Nom. PVC — 0.081
      (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: — 3.0 Twists/foot (min)
3) Jacket — 0.045" Wall, Nom.,PVC, Oil Resistant — 0.433+/- 0.025
   a) Color(s) — SLATE
   b) Jacket Separator — Tissue Tape, 25% Overlap, Min.
   c) Print — ALPHA WIRE-* P/N 65012 12C 20 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 $V_{RMS}$
2) CSA International — AWM I/II A/B FT1 — 90°C / 600 $V_{RMS}$
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 — 94 Lbs, Maximum

**D. Electrical Properties** (For Engineering purposes only)

1) Voltage Rating — 600 $V_{RMS}$
2) Capacitance — 27 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance — 0.21 µH/ft, Nominal
4) Conductor DCR — 10.8 Ω/1000ft @20°C, Nominal

**E. Other**

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



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