

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 810286
Page 1 of 2 Pages

Issue: 1
Issue Date: 2/7/2013
Effective Date: 4/4/2013

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 20 (7/28) AWG TC | 0.038 |
| b) Insulation | 0.010" Wall, Nom. PVC, Semi Rigid | 0.058 |
| (1) Print | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED | |
| (2) Color Code | Alpha Wire Color Code J1 | |
-
- | Cond | Color | Cond | Color | Cond | Color |
|------|----------|------|--------|------|-------|
| 1 | BLACK #1 | 2 | RED #2 | | |
-
- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 9.6 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.063" Wall, Nom. PVC | 0.246 (0.258 Max.) |
| a) Color(s) | SLATE | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE P/N 810286 2C 20 AWG
PRESS SW EATON (UL) TYPE CM 105C OR AWM 2343 VW-1 <i>dl</i>
--- LLXXXXXX CSA 105C TYPE CMG FT4 CE
ROHS (SEQ FOOTAGE)
* = Factory Code
<i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 10002 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 2343 | 80°C |
| | CM | 105°C |
| | VW-1 | |
| 2) CSA International | CMG | 105°C |
| | FT4 | |
| 3) CE: | EU Low Voltage Directive 2006/95/EC | |

C. Environmental Compliance

- | | |
|-------------------------------------|---|
| 1) CE: | EU Directive 2011/65/EU (RoHS2):
This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for <u>RoHS C of C</u> . |
| 2) REACH Regulation (EC 1907/2006): | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration. |
| 3) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

D. Physical & Mechanical Properties

- | | |
|------------------------|--------------------|
| 1) Temperature Range | -30 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 17.5 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|-----------------------------|---|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 25 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Characteristic Impedance | 71 Ω |
| 4) Inductance | 0.17 μH/ft, Nominal |

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Page 2 of 2 Pages

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- 5) Conductor DGR 10.2 Ω /1000ft @20°C, Nominal
- F. Other
- 1) Packaging Flange x Traverse x Barrel (Inches)
- a) Bulk(Made-to-order)
- 2) Notes:
- a) Same as 5220/2C except color code J1.

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By: <i>Shawn Davis</i>	Date: <i>2-11-13</i>
Company: <i>NEWTECH 3</i>	Title: <i>Buyer</i>

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