

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 810289
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 | 0.016" Wall, Nom. PVC | 0.070 |
| (1) Print | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED | |
| (2) Color Code | Alpha Wire Color Code - J1 | |

Cond	Color	Cond	Color
1	BLACK #1	2	RED #2

- | | | |
|--------------------|--|--------------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 8.0 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 | 20 (7/28) AWG TC | |
| 4) Jacket | 0.032" Wall, Nom. PVC | 0.212 (0.222 Max.) |
| a) Color(s) | SLATE | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE - * P/N 810289 2C 20 AWG
SPEED SENSOR EATON SHIELDED (UL) TYPE CM 105C OR
AWM 2464 VW-1 LLXXXXXX CSA 105C TYPE CMG FT4
CE ROHS (SEQ FOOTAGE) | |

* = Factory Code
[Note: Product may have s(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 1569 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 2464 | 80°C / 300 V _{RMS} |
| | 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 RoHS C of C. |
| 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: | 28 Lbs, Maximum |
| 4) Sunlight Resistance: | Yes |
- E. Electrical Properties** (For Engineering purposes only)
- | | |
|--------------------|----------------------|
| 1) Voltage Rating: | 300 V _{RMS} |
|--------------------|----------------------|

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- 2) Capacitance 48 pF/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Ground Capacitance 86 pF/ft @1 kHz, Nominal
 - 4) Characteristic Impedance 46 Ω
 - 5) Inductance 0.19 μ H/ft, Nominal
 - 6) Conductor DCR 10.2 Ω /1000ft @20°C, Nominal
 - 7) OA Shield DCR 8.2 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 5462C except color code J1.

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

Accepted By: 	Date: 2-11-13
Company: NewTECH 3	Title: Buyer

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