

**ALPHA WIRE  
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 810288  
Page 1 of 2 Pages

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

- A. Construction** **Diameters (In)**
- 1) Component 1 3 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	Cond	Color
1	BLACK #1	2	RED #2	3	BLUE #3

- 2) Cable Assembly 3 Components Cabled
- a) Twists: 6.9 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 0.223 (0.234 Max)
- a) Color(s) SLATE
- b) Ripcord 1 End 810 Denier Nylon
- c) Print ALPHA WIRE - \* P/N 810288 3C 20 AWG  
PRESS XDCR 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 a (UL) or CSA markings depending upon plant of manufacture.]*

**B. Applicable Specifications**

- 1) UL
- a) Component 1 AWM/STYLE 1669 105°C / 300 V<sub>RMS</sub>
- b) Overall AWM/STYLE 2464 80°C / 300 V<sub>RMS</sub>
- 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 35-Lbs. Maximum
- 4) Sunlight Resistance Yes

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

- 1) Voltage Rating 300 V<sub>RMS</sub>

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- 2) Capacitance 44 pF/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 79 pF/ft @1 kHz, Nominal
- 4) Inductance 0.19  $\mu$ H/ft, Nominal
- 5) Conductor DCR 10.2  $\Omega$ /1000ft @20°C, Nominal
- 6) DA Shield DCR 8.2  $\Omega$ /1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
  - a) Bulk(Made-to-order)
- 2) Notes:
  - a) Same as 5463C 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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