

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

**Part Number: M13404**  
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**Issue: 4**  
**Issue Date: 5/8/2013**  
**Effective Date: 5/8/2013**

**A. Construction**

- |                |                         | <u>Diameters (In)</u> |
|----------------|-------------------------|-----------------------|
| 1) Component 1 | 4 X 1 COND              |                       |
| a) Conductor   | 20 (7/28) AWG TC        | 0.038                 |
| b) Insulation  | 0.013" Wall, Nom. PVC   | 0.064                 |
| (1) Color Code | Alpha Wire Color Code O |                       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	WHITE	4	GREEN		

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 4 Components Cabled   |                    |
| a) Twists:        | 5.3 Twists/foot (min)   |                    |
| 3) Jacket         | 0.032" Wall, Nom., PVC  | 0.219 (0.230 Max.) |
| a) Color(s)       | SLATE, BLACK(see notes)   |                    |
| b) Print          | ALPHA WIRE-* P/N M13404 4C 20 AWG<br>EXXXXXX 75C CM (UL) C(UL) OR<br>AWM STYLE 2464 CE ROHS<br>* = Factory Code |                    |

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

**B. Applicable Specifications**

- |                      |                                     |                             |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL                | CM                                  | 75°C                        |
|                      | AWM/STYLE 2464                      | 80°C / 300 V <sub>RMS</sub> |
| 2) CSA International | C(UL) TYPE CM                       | 75°C                        |
| 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 -20 to 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 35 Lbs, Maximum

**E. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>
  - 2) Capacitance 33 pf/ft @1 kHz, Nominal Conductor to Conductor
  - 3) Inductance 0.18 µH/ft, Nominal
  - 4) Conductor DCR 10.2 Ω/1000ft @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
  - a) 1000 FT 12 x 10 x 5 Continuous length
  - b) 500 FT 12 x 4.5 x 3.5 Continuous length
  - c) 100 FT 6.5 x 4 x 2.5 Continuous length
  - d) Bulk(Made-to-order)

*[Spool dimensions may vary slightly]*

- 2) Notes:
  - a) BLACK Jacket is special order, minimum applies.

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