

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 518103
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Issue: 1
Issue Date: 4/6/2011
Effective Date: 6/1/2011

A. Construction

- | | | |
|----------------|-------------------------|-----------------------|
| | | Diameters (In) |
| 1) Component 1 | 3 X 1 COND | |
| a) Conductor | 18 (16/30) AWG BC | 0.047 |
| b) Insulation | 0.016" Wall, Nom. PVC | 0.079 |
| (1) Color Code | Alpha Wire Color Code D | |

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

- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 4.8 Twists/foot (min) | |
| 3) Jacket | 0.020" Wall, Nom.,PVC | 0.210 (0.220 Max.) |
| a) Color(s) | SLATE | |
| b) Print | ALPHA WIRE-* P/N 518103 3C 18 AWG
(UL) 75C TYPE CM OR AWM 2509 --- LLXXXXXX
CSA TYPE CMG FT4 ROHS
* = Factory Code | |

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

B. Applicable Specifications

- | | | |
|----------------------|----------------|-----------------------------|
| 1) UL | AWM/STYLE 2509 | 80°C / 300 V _{RMS} |
| | CM | 75°C |
| | VW-1 | |
| 2) CSA International | CMG | 60°C |
| | FT4 | |

C. Environmental Compliance

- | | |
|-----------------------------------|--|
| 1) 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. |
| 2) 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 | 38 Lbs, Maximum |

E. Electrical Properties

- | | |
|-------------------|---|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 33 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance | 0.18 µH/ft, Nominal |
| 4) Conductor DCR | 6.7 Ω/1000ft @20°C, Nominal |

F. Other

- | | |
|------------------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |

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

Accepted By:	Date:
Company:	Title:

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