

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 669360
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Issue: 1
Issue Date: 2/1/2013
Effective Date: 3/29/2013

A. Construction

- | | | |
|----------------|---|-----------------------|
| 1) Component 1 | 19 X 1 COND | Diameters (In) |
| a) Conductor | 22 (19/34) AWG TC | 0.032 |
| b) Insulation | 0.0095" Wall, Nom. Modified Polyphenylene Ether | 0.051 |
| (1) Color Code | Alpha Wire Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	8	VIOLET	15	WHITE/YELLOW
2	BROWN	9	SLATE	16	WHITE/GREEN
3	RED	10	WHITE	17	WHITE/BLUE
4	ORANGE	11	WHITE/BLACK	18	WHITE/VIOLET
5	YELLOW	12	WHITE/BROWN	19	WHITE/SLATE
6	GREEN	13	WHITE/RED		
7	BLUE	14	WHITE/ORANGE		

- | | | |
|---------------------|---|----------------|
| 2) Cable Assembly | 19 Components Cabled | |
| a) Twists: | 4.0 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield | TC BRAID Shield, 90% Coverage, Min. | |
| 4) Jacket | 0.035" Wall, Nom., MPPE | 0.357+/- 0.018 |
| a) Color(s) | SLATE | |
| b) Jacket Separator | Tissue Tape, 25% Overlap, Min. | |
| c) Print | ALPHA WIRE-* P/N 669360 19C 22 AWG
ECOFLEX(TM) RU AWM 21819 105C 600V OR 21492
80C 300V VW-1 CLASS M C(RU) AWM I/II A/B FT1
600V 105C CE ROHS (SEQ METERS)
* = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|-------------------------------|
| 1) UL | AWM/STYLE 21819 | 105°C / 600 V _{RMS} |
| | AWM/STYLE 21492 | 80°C / 300 V _{RMS} |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 105°C / 600V V _{RMS} |
| 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 | -40 to 105°C (static), -5 to 105°C (dynamic) |
| 2) Bend Radius | 5X Cable Diameter (static), 5X Cable Diameter (Flexing), 8X Cable Diameter (Optimal Flexing) |
| 3) Pull Tension | 121 Lbs, Maximum |
| 4) Copper Weight | 63 Lbs/1000Ft |
| 5) Cable Weight | 107 Lbs/1000Ft |

E. Electrical Properties

- | | |
|-----------------------|--|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 29 pf/ft @ 1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 52 pf/ft @ 1 kHz, Nominal |
| 4) Inductance | 0.17 µH/ft, Nominal |
| 5) Conductor DCR | 15.4 Ω/1000ft @ 20°C, Nominal |

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- 6) OA Shield DCR 2.27 Ω /1000ft @20°C, Nominal
- F. Other
- 1) Packaging Flange x Traverse x Barrel (Inches)
- a) 1000 FT 18 x 12 x 8 Continuous length
 [Spool dimensions may vary slightly]
- 2) Notes:
- a) Rated for 1,000,000 C-Track flex cycles at the bend radii listed above, or larger.

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

Accepted By: <i>Austin Clark</i>	Date: <i>2/12/13</i>
Company: <i>Electroimpact</i>	Title:

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