

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 18-2501
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Issue: 1
Issue Date: 11/8/2018
Effective Date: 1/3/2019

A. Construction

Diameters (In)

- | | | | |
|----|----------------|------------------------------|-------|
| 1) | Component 1 | 4 X 1 PAIR | |
| | a) Conductor | 18 (16/30) AWG Tinned Copper | 0.047 |
| | b) Insulation | 0.032" Wall, Nom. PVC | 0.111 |
| | (1) Color Code | Alpha Wire Color Code B | |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	3	WHITE-RED		
2	WHITE-BROWN	4	WHITE-ORANGE		

- | | | | |
|----|-----------------------|--|--------------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 3.7 Twists/foot (min) | |
| | Individually Applied: | | |
| | d) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| | (1) Foil Direction | Foil Facing Out | |
| | (2) Drain Wire | 18 (16/30) AWG Tinned Copper | |
| | (2) Braid | Tinned Copper, 85% Coverage, Min. | |
| 2) | Cable Assembly | 4 Components Cabled | |
| | a) Twists: | 1.5 Twists/foot (min) | |
| | b) Orientation: | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | |
| 3) | Jacket | 0.033" Wall, Nom., PVC | 0.599 (0.625 Max.) |
| | a) Color(s) | SLATE | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N 18-2501 4PR 18 AWG
AWM 2129 90C 1000V
CE ROHS (SEQ FOOTAGE)
* = Factory Code | |

B. Applicable Specifications

- | | | | |
|----|----------------|-------------------------------------|---|
| 1) | UL | | |
| | a) Component 1 | AWM/STYLE 1032 | 90°C / 1000 V _{RMS} / 1200 V _{DC} |
| | b) Overall | AWM/STYLE 2129 | 90°C / 1000 V _{RMS} |
| 2) | CE: | EU Low Voltage Directive 2014/35/EU | |

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 and the amending Directive 2015/863/EU of 4 June 2015. 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 . | |

D. Physical & Mechanical Properties

- | | | | |
|----|-------------------|--------------------|--|
| 1) | Temperature Range | -20 to 90°C | |
| 2) | Bend Radius | 10X Cable Diameter | |
| 3) | Pull Tension | 156 Lbs, Maximum | |

E. Electrical Properties (For Engineering purposes only)

- | | | | |
|----|--------------------------|---|--|
| 1) | Voltage Rating | 1000 V _{RMS}
1200 V _{DC} | |
| 2) | Mutual Capacitance | 34 pF/ft @ 1 kHz, Nominal | |
| 3) | Ground Capacitance | 61 pF/ft @ 1 kHz, Nominal | |
| 4) | Characteristic Impedance | 62 Ω | |

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- 5) Inductance 0.22 μ H/ft, Nominal
- 6) Conductor DCR 7.1 Ω /1000ft @20°C, Nominal
- 7) Component Shield DCR 2.6 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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