

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 669371
Page 1 of 2 Pages

Issue: 1
Issue Date: 4/29/2014
Effective Date: 6/24/2014

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 6 X 1 PAIR | |
| a) Conductor | 26 (7/34) AWG Tinned Copper | 0.019 |
| b) Insulation | 0.0095" Wall, Nom. Modified Polyphenylene Ether | 0.038 |
| (1) Color Code | Alpha Wire Color Code A | |

| Pair | Color | Pair | Color | Pair | Color |
|------|-------------|------|-------------|------|--------------|
| 1 | BLACK-RED | 3 | BLACK-GREEN | 5 | BLACK-BROWN |
| 2 | BLACK-WHITE | 4 | BLACK-BLUE | 6 | BLACK-YELLOW |

- | | | |
|-------------------|--|----------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 13.7 Twists/foot (min) | |
| 2) Cable Assembly | 6 Components Cabled | |
| a) Twists: | 5.3 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 | 26 (7/34) AWG Tinned Copper | |
| 4) Jacket | 0.035" Wall, Nom.,MPPE | 0.266+/- 0.017 |
| a) Color(s) | SLATE | |
| b) Print | ALPHA WIRE-* P/N 669371 6PR 26 AWG RU AWM 21819 105C 600V VW-1 C(RU) AWM I/II A/B FT1 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|-------------------------------|
| 1) UL | AWM/STYLE 21819 | 105°C / 600 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(dynamic) |
| 3) Pull Tension | 28 Lbs, Maximum |
| 4) Copper Weight | 35 Lbs/1000Ft |
| 5) Cable Weight | 65 Lbs/1000Ft |

E. Electrical Properties (For Engineering purposes only)

- | | |
|-----------------------------|----------------------------|
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Mutual Capacitance | 16.1 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 29 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 102 Ω |

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- 5) Inductance 0.2 μ H/ft, Nominal
- 6) Conductor DCR 42 Ω /1000ft @20°C, Nominal
- 7) OA Shield DCR 20.9 Ω /1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)
- 2) Notes:
 - a) Suitable for low to moderate flexing only (<1,000,000 cycles). The foil shield will deteriorate over time.
 - b) Outgassing Per ASTM E 595-07; TML = 1.95%, CVCM = 0.84%; WVR 0.07%
 - c) Suitable for use under NFPA-79 when used in accordance with the AWM use statement.

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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