

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 16-1228
Page 1 of 2 Pages

Issue: 1
Issue Date: 3/7/2016
Effective Date: 5/2/2016

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 2 X 1 PAIR | |
| a) Conductor | 24 (19/36) AWG Tinned Copper | 0.025 |
| b) Insulation | 0.007" Wall, Nom. Modified Polyphenylene Ether-PE | 0.039 |
| (1) Color(s) | | |

Pair	Color	Pair	Color	Pair	Color
1	WHITE & BLACK	2	RED & YELLOW		

- | | | |
|---------------------|--|----------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 12.0 Twists/foot (min) | |
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 6.9 Twists/foot (min) | |
| b) Orientation: | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | |
| c) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield | Tinned Copper BRAID Shield, 70% Coverage, Min. | |
| a) Drain Wire | 24 (7/32) AWG Tinned Copper | |
| 4) Jacket | 0.025" Wall, Nom., Modified Polyphenylene Ether-PE | 0.210+/- 0.013 |
| a) Color(s) | BLACK | |
| b) Jacket Separator | Tissue Tape, 25% Overlap, Min. | |
| c) Print | E163869-* RU AWM 21460 80C 300V VW-1
C(RU) AWM I A/B FT1 80C 300V CE ROHS
* = Factory Code | |
| d) Print Method | Indent Print | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL | AWM/STYLE 21460
VW-1 | 80°C / 300 V _{RMS} |
| 2) CSA International | C(RU) AWM I A/B FT1 | 80°C / 300 V _{RMS} |
| 3) Other | Halogen-Free | |
| 4) 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](#).

D. Physical & Mechanical Properties

- | | |
|----------------------|--------------------|
| 1) Temperature Range | -40 to 80°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 21.1 Lbs, Maximum |

E. Electrical Properties

- (For Engineering purposes only)
- | | |
|-----------------------------|------------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 27 pF/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 49 pF/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 57 Ω |
| 5) Inductance | 0.17 μH/ft, Nominal |
| 6) Conductor DCR | 24.5 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 6.1 Ω/1000ft @20°C, Nominal |

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- 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: <i>TIMO KOSIG</i>	Date: <i>2016-03-08</i>
Company: <i>CAREFUSION 234 GMBH</i>	Title: <i>(SRN - PRO). MANAGER</i>



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