

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 17-1212	Issue: 1
Page 1 of 2 Pages	Issue Date: 3/11/2017
	Effective Date: 5/6/2017

- A. Construction** Diameters (In)
- 1) Component 1 3 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	3	GREEN & BLUE

- c) Pair 2/Cond Cabled Together
- (1) Twists: 12.0 Twists/foot (min)
- 2) Cable Assembly 3 Components Cabled
- a) Twists: 6.0 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 0.220+/- 0.013
- a) Color(s) BLACK
- b) Jacket Separator Tissue Tape, 25% Overlap, Min.
- c) Print ALPHA WIRE-*
- RU AWM 21460 80C 300V VW-1 C(RU) AWM I A/B FT1
- 80C 300V ROHS CE
- * = Factory Code
- d) Print Method Indent Print

- B. Applicable Specifications**
- 1) UL AWM/STYLE 21460 80°C / 300 V_{RMS}
 - VW-1
 - 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 2014/35/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 29 Lbs, Maximum

- E. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
 - 2) Mutual Capacitance 22 pF/ft @1 kHz, Nominal
 - 3) Ground Capacitance 40 pF/ft @1 kHz, Nominal
 - 4) Characteristic Impedance 75 Ω
 - 5) Inductance 0.17 μH/ft, Nominal
 - 6) Conductor DCR 24.5 Ω/1000ft @20°C, Nominal

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- 7) OA Shield DCR 5 Ω /1000ft @20°C, Nominal
- 8) Spark Test 3000 V_{RMS}
- 9) Dielectric voltage-withstand 2000 V_{RMS}
- 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>J. LEINSITZBERGER</i>	Date: <i>16 MAR 2017</i>
Company: <i>CAREFUSION</i>	Title: <i>PROJECT LEAD</i>



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