

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 78243
Page 1 of 2 Pages

Issue: 1
Issue Date: 7/12/2014
Effective Date: 9/6/2014

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 3 X 1 PAIR | |
| a) Conductor | 22 (19/34) AWG Tinned Copper | 0.032 |
| b) Insulation | 0.007" Wall, Nom. Modified Polyphenylene Ether-PE | 0.046 |
| (1) Color Code | Alpha Wire Color Code B | |
-
- | Pair | Color | Pair | Color | Pair | Color |
|------|-------------|------|-------------|------|-----------|
| 1 | WHITE-BLACK | 2 | WHITE-BROWN | 3 | WHITE-RED |
-
- | | | |
|-----------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 9.6 Twists/foot (min) | |
| Individually Applied: | | |
| d) Shield: | Foil Free Alum/Mylar Tape, 25% Overlap, Min. | |
| (1) Foil Direction | Foil Facing In | |
| (2) Drain Wire | 22 (7/30) AWG Tinned Copper | |
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 4.4 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 | 22 (7/30) AWG Tinned Copper | |
| 4) Jacket | 0.015" Wall, Nom., Modified Polyphenylene Ether-PE | 0.222 (0.233 Max.) |
| a) Color(s) | SLATE | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 78243 3PR 22 AWG
ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1
C(RU) AWM I A/B FT1 80C 300V
CE ROHS (SEQ FOOTAGE) | |
- * = Factory Code

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 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 | 58 Lbs, Maximum |

E. Electrical Properties (For Engineering purposes only)

- | | |
|-----------------------------|--------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 38 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 68 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 43 Ω |

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- | | |
|-------------------------|--------------------------------------|
| 5) Inductance | 0.16 μ H/ft, Nominal |
| 6) Conductor DCR | 15.4 Ω /1000ft @20°C, Nominal |
| 7) Component Shield DCR | 14.4 Ω /1000ft @20°C, Nominal |
| 8) OA Shield DCR | 11.8 Ω /1000ft @20°C, Nominal |

F. Other

- | | |
|------------------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 12 x 10 x 5 Continuous length |
| b) 100 FT | 6.5 x 4 x 2.5 Continuous length |
| c) Bulk(Made-to-order) | |

[Spool dimensions may vary slightly]

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