

ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 78444
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Issue: 1
Issue Date: 9/4/2014
Effective Date: 10/30/2014

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 25 X 1 COND | |
| 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 E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	10	WHITE	19	WHITE/SLATE
2	BROWN	11	WHITE/BLACK	20	WHITE/BLACK/BROWN
3	RED	12	WHITE/BROWN	21	WHITE/BLACK/RED
4	ORANGE	13	WHITE/RED	22	WHITE/BLACK/ORANGE
5	YELLOW	14	WHITE/ORANGE	23	WHITE/BLACK/YELLOW
6	GREEN	15	WHITE/YELLOW	24	WHITE/BLACK/GREEN
7	BLUE	16	WHITE/GREEN	25	WHITE/BLACK/BLUE
8	VIOLET	17	WHITE/BLUE		
9	SLATE	18	WHITE/VIOLET		

- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 25 Components Cabled | |
| a) Twists: | 3.0 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 | 0.314 (0.331 Max.) |
| a) Color(s) | SLATE | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 78444 25C 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 | 154 Lbs, Maximum |

E. Electrical Properties

- | | |
|---------------------------------|--|
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 34 pf/ft @ 1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 61 pf/ft @ 1 kHz, Nominal |
| 4) Inductance | 0.16 µH/ft, Nominal |
| 5) Conductor DCR | 15.3 Ω/1000ft @ 20°C, Nominal |

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6) OA Shield DCR 10.4 Ω /1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
- a) 1000 FT 18 x 12 x 8 Continuous length
 - b) 100 FT 12 x 4.5 x 3.5 Continuous length
 - c) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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