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Customer Specification

PART NO. 78303

Construction

| | | Diameters (In) | | | | | | | |
|---------------------|--|--------------------|-------|------|-------|--|--|--|--|
| 1) Component 1 | 3 X 1 COND | | | | | | | | |
| a) Conductor | 28 (19/40) AWG Tinned Copper | 0.016 | | | | | | | |
| b) Insulation | 0.007" Wall, Nom. Modified Polyphenylene Ether-PE | 0.030 | | | | | | | |
| (1) Color Code | Alpha Wire Color Code E | | | | | | | | |
| Cond | Color | Cond | Color | Cond | Color | | | | |
| 1 | BLACK | 2 | BROWN | 3 | RED | | | | |
| 2) Cable Assembly | 3 Components Cabled | | | | | | | | |
| a) Twists: | 13.7 Twists/foot (min) | | | | | | | | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | | | | | | | | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | | | | | | | | |
| a) Drain Wire | 28 (7/36) AWG Tinned Copper | | | | | | | | |
| b) Braid | Tinned Copper, 70% Coverage, Min. | | | | | | | | |
| 4) Jacket | 0.015" Wall, Nom., Modified Polyphenylene Ether-PE | 0.130 (0.138 Max.) | | | | | | | |
| a) Color(s) | SLATE | | | | | | | | |
| b) Ripcord | 1 End 810 Denier Nylon | | | | | | | | |
| c) Jacket Separator | Nonwoven Polyester Tape, 25% Overlap, Min. | | | | | | | | |
| d) Print | ALPHA WIRE-* P/N 78303 3C 28 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 | | | | | | | | |

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 | |

Environmental

| | |
|--|---|
| 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. |

Properties

| Physical & Mechanical Properties | |
|----------------------------------|---|
| 1) Temperature Range | -40 to 80°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 7 Lbs, Maximum |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 23.9 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 43 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 µH/ft, Nominal |
| 5) Conductor DCR | 63 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 12.2 Ω/1000ft @20°C, Nominal |

Other

| | |
|---|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 12 x 4.5 x 3.5 Continuous length |
| b) 100 FT | 6.5 x 2 x 1.9 Continuous length |
| c) Bulk(Made-to-order) | |
| <i>[Spool dimensions may vary slightly]</i> | |

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78303

78303 , RoHS-Compliant Commencing With 7/22/2014 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

| Substance | Maximum Control Value |
|---|----------------------------|
| Lead | 0.1% by weight (1000 ppm) |
| Mercury | 0.1% by weight (1000 ppm) |
| Cadmium | 0.01% by weight (100 ppm) |
| Hexavalent Chromium | 0.1% by weight (1000 ppm) |
| Polybrominated Biphenyls (PBB) | 0.1% by weight (1000 ppm) |
| Polybrominated Diphenyl Ethers (PBDE) , Including Deca-BDE | 0.1% by weight (1000 ppm) |

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Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read "Dave Watson".

Dave Watson, Director of Engineering & QA

8/6/2015

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