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Customer Specification

PART NO. M1102

Construction

| | | Diameters (In) | | | |
|-------------------|-------|---|-------|--------------------|-------|
| 1) Component 1 | | 2 X 1 COND | | | |
| a) Conductor | | 24 (10/34) AWG Tinned Copper | | 0.024 | |
| b) Insulation | | 0.016" Wall, Nom. FRPE | | 0.056 | |
| (1) Color Code | | Alpha Wire Color Code H | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 2 | WHITE | | |
| 2) Cable Assembly | | 2 Components Cabled | | | |
| a) Twists: | | 8.0 Twists/foot (min) | | | |
| b) Orientation: | | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | | | |
| c) Core Wrap | | Clear Mylar Tape, 25% Overlap, Min. | | | |
| 3) Shield | | Tinned Copper BRAID Shield,90% Coverage, Min. | | | |
| 4) Jacket | | 0.020" Wall, Nom.,PVC | | 0.177 (0.187 Max.) | |
| a) Color(s) | | SLATE | | | |
| b) Print | | ALPHA WIRE-* P/N M1102 2C 24 AWG EXXXXXX (UL) TYPE CM 75C OR AWM 2092 CE ROHS * = Factory Code | | | |

Applicable Specifications

| | | |
|--------|-------------------------------------|-----------------------------|
| 1) UL | CM | 75°C |
| | AWM/STYLE 2092 | 60°C / 300 V _{RMS} |
| 2) CE: | EU Low Voltage Directive 2014/35/EU | |

Environmental

| | |
|--|--|
| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): | |
| | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C. |
| 2) California Proposition 65: | Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information. |

Properties

| Physical & Mechanical Properties | |
|----------------------------------|---|
| 1) Temperature Range | -20 to 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 9.5 Lbs, Maximum |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 20.5 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 37 pF/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 81 Ω |
| 5) Inductance | 0.22 μH/ft, Nominal |
| 6) Conductor DCR | 29 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 6.8 Ω/1000ft @20°C, Nominal |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|------------------------|---|
| a) 1000 FT | 12 x 6 x 3.5 Continuous length |
| b) 500 FT | 12 x 4.5 x 3.5 Continuous length |
| c) 100 FT | 6.5 x 2 x 1.9 Continuous length |
| d) Bulk(Made-to-order) | |
| | <i>[Spool dimensions may vary slightly]</i> |

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742)

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M1102

M1102 , RoHS-Compliant Commencing With 7/1/2005 Production

Note: all colors and put-ups

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 (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **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 11364-2014.

| 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) |
| Bis(2-ethylhexyl) phthalate (DEHP) | 0.1% by weight (1000 ppm) |
| Butyl benzyl phthalate (BBP) | 0.1% by weight (1000 ppm) |
| Dibutyl phthalate (DBP) | 0.1% by weight (1000 ppm) |
| Diisobutyl phthalate (DIBP) | 0.1% by weight (1000 ppm) |

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

9/12/2019

Alpha Wire

711 Lidgerwood Ave.

Elizabeth, NJ 07207

Tel: 1-908-925-8000