



Customer Specification

PART NO. 77111

Construction

| | | Diameters (In) | | | |
|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|-------|
| 1) Component 1 | | 4 X 1 COND | | | |
| a) Conductor | | 22 (7/30) AWG TC | | 0.030 | |
| b) Insulation | | 0.010" Wall, Nom. MPPE | | 0.050 | |
| (1) Color Code | | Alpha Wire Color Code E | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 3 | RED | | |
| 2 | BROWN | 4 | ORANGE | | |
| 2) Cable Assembly | | 4 Components Cabled | | | |
| a) Twists: | | 8.0 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 TC | | | |
| 4) Jacket | | 0.032" Wall, Nom.,MPPE | | 0.193 (0.204 Max.) | |
| a) Color(s) | | SLATE | | | |
| b) Ripcord | | 1 End 810 Denier Nylon | | | |
| c) Print | | ALPHA WIRE-* P/N 77111 4C 22 AWG ECOCABLE(TM) RU AWM 21510 105C 600V VW-1 C(RU) AWM I/II A/B FT1 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 11231 | 105°C / 600 V _{RMS} |
| b) Overall | AWM/STYLE 21510 | 105°C / 600 V _{RMS} |
| | VW-1 | |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 105°C / 600 V _{RMS} |
| 3) 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. |
| 3) California Proposition 65: | |
| | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

Properties

| | |
|-------------------------------------------------------|---------------------------------------------------|
| Physical & Mechanical Properties | |
| 1) Temperature Range | -50 to 105°C |
| 2) Bend Radius | 6X Cable Diameter |
| 3) Pull Tension | 27 Lbs, Maximum |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 24.4 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 44 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.18 µH/ft, Nominal |
| 5) Conductor DCR | 16.4 /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 11.8 /1000ft @20°C, Nominal |

Other

| | |
|------------------|---------------------------------------------|
| 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 |
| | <i>[Spool dimensions may vary slightly]</i> |

www.alphawire.com

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

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.



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



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 77111

77111 , RoHS-Compliant Commencing With 10/12/2012 Production

This document certifies that the Alpha part number cited above are 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance 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) |

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

2/5/2013