

# Customer Specification

## PART NO. XM1622LCY

### Construction

|                     |              |                                                                                                                                                                                                                                                                    |             | Diameters (In) |             |
|---------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-------------|
| 1) Component 1      |              | 22 X 1 COND                                                                                                                                                                                                                                                        |             |                |             |
| a) Conductor        |              | 16 (65/34) AWG Bare Copper                                                                                                                                                                                                                                         |             | 0.059          |             |
| b) Insulation       |              | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON                                                                                                                                                                                                                           |             | 0.101          |             |
| (1) Print           |              | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED                                                                                                                                                                                                              |             |                |             |
| (2) Color Code      |              | Alpha Wire Color Code LW                                                                                                                                                                                                                                           |             |                |             |
| Cond                | Color        | Cond                                                                                                                                                                                                                                                               | Color       | Cond           | Color       |
| 1                   | GREEN/YELLOW | 9                                                                                                                                                                                                                                                                  | DK. BLUE#8  | 17             | DK. BLUE#16 |
| 2                   | DK. BLUE#1   | 10                                                                                                                                                                                                                                                                 | DK. BLUE#9  | 18             | DK. BLUE#17 |
| 3                   | WHITE/BLUE   | 11                                                                                                                                                                                                                                                                 | DK. BLUE#10 | 19             | DK. BLUE#18 |
| 4                   | DK. BLUE#3   | 12                                                                                                                                                                                                                                                                 | DK. BLUE#11 | 20             | DK. BLUE#19 |
| 5                   | DK. BLUE#4   | 13                                                                                                                                                                                                                                                                 | DK. BLUE#12 | 21             | DK. BLUE#20 |
| 6                   | DK. BLUE#5   | 14                                                                                                                                                                                                                                                                 | DK. BLUE#13 | 22             | DK. BLUE#21 |
| 7                   | DK. BLUE#6   | 15                                                                                                                                                                                                                                                                 | DK. BLUE#14 |                |             |
| 8                   | DK. BLUE#7   | 16                                                                                                                                                                                                                                                                 | DK. BLUE#15 |                |             |
| 2) Cable Assembly   |              | 22 Components Cabled                                                                                                                                                                                                                                               |             |                |             |
| a) Twists:          |              | 2.1 Twists/foot (min)                                                                                                                                                                                                                                              |             |                |             |
| b) Orientation:     |              | Components to be arranged from OUTSIDE LAYER to INSIDE LAYER                                                                                                                                                                                                       |             |                |             |
| c) Core Wrap        |              | REMAI Tape, 25% Overlap, Min.                                                                                                                                                                                                                                      |             |                |             |
| 3) Shield           |              | Tinned Copper BRAID Shield,85% Coverage, Min.                                                                                                                                                                                                                      |             |                |             |
| 4) Jacket           |              | 0.065" Wall, Nom.,PVC                                                                                                                                                                                                                                              |             | 0.765+/- 0.036 |             |
| a) Color(s)         |              | BLACK                                                                                                                                                                                                                                                              |             |                |             |
| b) Jacket Separator |              | Tissue Tape, 25% Overlap, Min.                                                                                                                                                                                                                                     |             |                |             |
| c) Print            |              | ALPHA WIRE-* P/N XM1622LCY 22C 16 AWG (1.31mm2)<br>SERIES XM (UL) WTTC 90C WET/DRY 1000V OR<br>(UL) TC-ER 90C WET/DRY 600V SUN RES<br>DIR BUR OIL RES I OR MTW 16 AWG<br>OR CRU AWM I/II A/B 90C 600V FT4<br>CE ROHS (DATE CODE) (SEQ FOOTAGE)<br>* = Factory Code |             |                |             |

### Applicable Specifications

|                      |                                     |                                             |
|----------------------|-------------------------------------|---------------------------------------------|
| 1) UL                |                                     |                                             |
| a) Component 1       | Unlisted Conductor                  | 90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>  |
| b) Overall           | MTW                                 | 90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>  |
|                      | TC                                  | 90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>  |
|                      | EXPOSED RUN                         |                                             |
|                      | SUN RES                             |                                             |
|                      | OIL RES I                           |                                             |
|                      | WTTC                                | 90°C Dry / 90°C Wet / 1000 V <sub>RMS</sub> |
| 2) CSA International | C(RU) AWM I/II A/B                  | 90°C / 600 V <sub>RMS</sub>                 |
|                      | FT4                                 |                                             |
| 3) Other             | Conductors ASTM Class M             |                                             |
|                      | Conductors IEC Class 6 on AWG size  |                                             |
| 4) CE:               | EU Low Voltage Directive 2014/35/EC |                                             |

## 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. |
| 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.                                                                                                |

## Properties

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| Physical & Mechanical Properties |                                                         |
| 1) Temperature Range             | -30 to 90°C(static), -5 to 90°C (dynamic)               |
| 2) Bend Radius                   | 10X Cable Diameter(static), 10X Cable Diameter(dynamic) |
| 3) Pull Tension                  | 471 Lbs, Maximum                                        |
| 4) Sunlight Resistance           | Yes                                                     |
| Electrical Properties            |                                                         |
| (For Engineering purposes only)  |                                                         |
| 1) Voltage Rating                | 600/1000 V <sub>RMS</sub>                               |
| 2) Capacitance                   | 49 pF/ft @1 kHz, Nominal Conductor to Conductor         |
| 3) Ground Capacitance            | 88 pF/ft @1 kHz, Nominal                                |
| 4) Inductance                    | 0.18 µH/ft, Nominal                                     |
| 5) Conductor DCR                 | 4.2 Ω/1000ft @20°C, Nominal                             |
| 6) OA Shield DCR                 | 0.91 Ω/1000ft @20°C, Nominal                            |

## Other

|                                                                                         |                                     |
|-----------------------------------------------------------------------------------------|-------------------------------------|
| <b>Packaging</b>                                                                        | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order)                                                                  |                                     |
| <b>Notes:</b>                                                                           |                                     |
| a) Suitable for constant flexing where cycle count will be less than 12,000,000 cycles. |                                     |

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

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure their 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 - CONFIDENTIAL AND PROPRIETARY

Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2013 ALPHA WIRE - all rights reserved.



## EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1622LCY

XM1622LCY , RoHS-Compliant Commencing With 3/16/2010 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)  |

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:

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

Dave Watson, Director of Engineering & QA

4/25/2020

Alpha Wire

711 Lidgerwood Ave.

Elizabeth, NJ 07207

Tel: 1-908-925-8000

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)