



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

# Customer Specification

## PART NO. 86610CY

### Construction

|                     |             |                                                                                                                                                                                                                                                                                                                             |              |                |           |
|---------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|-----------|
|                     |             |                                                                                                                                                                                                                                                                                                                             |              | Diameters (In) |           |
| 1) Component 1      |             | 10 X 1 PAIR                                                                                                                                                                                                                                                                                                                 |              |                |           |
| a) Conductor        |             | 24 (10/34) AWG TC                                                                                                                                                                                                                                                                                                           |              | 0.024          |           |
| b) Insulation       |             | 0.010" Wall, Nom. PVC, Semi Rigid                                                                                                                                                                                                                                                                                           |              | 0.044          |           |
| (1) Color Code      |             | Alpha Wire Color Code A                                                                                                                                                                                                                                                                                                     |              |                |           |
| Pair                | Color       | Pair                                                                                                                                                                                                                                                                                                                        | Color        | Pair           | Color     |
| 1                   | BLACK-RED   | 5                                                                                                                                                                                                                                                                                                                           | BLACK-BROWN  | 9              | RED-WHITE |
| 2                   | BLACK-WHITE | 6                                                                                                                                                                                                                                                                                                                           | BLACK-YELLOW | 10             | RED-BLUE  |
| 3                   | BLACK-GREEN | 7                                                                                                                                                                                                                                                                                                                           | BLACK-ORANGE |                |           |
| 4                   | BLACK-BLUE  | 8                                                                                                                                                                                                                                                                                                                           | RED-GREEN    |                |           |
| c) Pair             |             | 2/Cond Cabled Together                                                                                                                                                                                                                                                                                                      |              |                |           |
| (1) Twists:         |             | 9.6 Twists/foot (min)                                                                                                                                                                                                                                                                                                       |              |                |           |
| 2) Cable Assembly   |             | 10 Components Cabled                                                                                                                                                                                                                                                                                                        |              |                |           |
| a) Twists:          |             | 3.4 Twists/foot (min)                                                                                                                                                                                                                                                                                                       |              |                |           |
| b) Core Wrap        |             | Nonwoven Polyester Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                                  |              |                |           |
| 3) Shield:          |             | Flex Alum/Mylar Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                                     |              |                |           |
| a) Foil Direction   |             | Foil Facing Out                                                                                                                                                                                                                                                                                                             |              |                |           |
| b) Drain Wire       |             | 26 (7/34) AWG TC                                                                                                                                                                                                                                                                                                            |              |                |           |
| c) Braid            |             | TC,85% Coverage, Min.                                                                                                                                                                                                                                                                                                       |              |                |           |
| 4) Jacket           |             | 0.045" Wall, Nom.,PVC                                                                                                                                                                                                                                                                                                       |              | 0.427+/- 0.022 |           |
| a) Color(s)         |             | SLATE                                                                                                                                                                                                                                                                                                                       |              |                |           |
| b) Jacket Separator |             | Tissue Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                                              |              |                |           |
| c) Print            |             | ALPHA WIRE-* P/N 86610CY 10PR 24 AWG<br>XTRAGUARD(R) CONTINUOUS FLEX DATA CABLE<br>(UL) 105C TYPE CM --- C(UL) CMG OR AWM 2661<br>105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C<br>300V CE ROHS (SEQ FOOTAGE)<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |              |                |           |

### Applicable Specifications

|                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 10002                     | 105°C / 300 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 2661                      | 105°C / 300 V <sub>RMS</sub> |
|                      | CM                                  | 105°C                        |
| 2) CSA International | AWM I/II A/B                        | 105°C / 300 V <sub>RMS</sub> |
|                      | C(UL) TYPE CMG                      | 105°C                        |
|                      | FT4                                 |                              |
| 3) CE:               | EU Low Voltage Directive 2006/95/EC |                              |

## Environmental

|                                     |                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) EU Directive 2002/95/EC(RoHS):   |                                                                                                                                                                                                                                                                              |
|                                     | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 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                                  | -10 to 105°C(static), +5 to 105°C (dynamic)             |
| 2) Bend Radius                                        | 10X Cable Diameter(static), 15X Cable Diameter(dynamic) |
| 3) Pull Tension                                       | 73 Lbs, Maximum                                         |
| 4) Sunlight Resistance                                | Yes                                                     |
| Electrical Properties (For Engineering purposes only) |                                                         |
| 1) Voltage Rating                                     | 300 V <sub>RMS</sub>                                    |
| 2) Mutual Capacitance                                 | 23.1 pf/ft @1 kHz, Nominal                              |
| 3) Ground Capacitance                                 | 42 pf/ft @1 kHz, Nominal                                |
| 4) Characteristic Impedance                           | 82                                                      |
| 5) Inductance                                         | 0.19 µH/ft, Nominal                                     |
| 6) Conductor DCR                                      | 30 /1000ft @20°C, Nominal                               |
| 7) OA Shield DCR                                      | 2.11 /1000ft @20°C, Nominal                             |

## Other

|                  |                                      |
|------------------|--------------------------------------|
| <b>Packaging</b> | Flange x Traverse x Barrel (inches)  |
| a) 1000 FT       | 24 x 14 x 12 Continuous length       |
| b) 500 FT        | 18 x 12 x 8 Continuous length        |
| c) 100 FT        | 12 x 10 x 5 Continuous length        |
|                  | [Spool dimensions may vary slightly] |

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:86610CY

86610CY , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordancewith Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003,better known as the RoHS Directives, with regards to restrictions of the use of certain hazardousubstances used in the manufacture of electrical and electronic equipment. The reader is referredto these Directives for the specific definitions and extents of these Directives. **No Exemptions arerequired for RoHS Compliance on this item.***

| 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) | 0.1% by weight (1000 ppm) |
| 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'sknowledge, information and belief at the date of its release. The information provided is designedonly as a general guide for the safe handling, storage, and any other operation of the productitself or the one that it will become part of. The intent of this document is not to be considered awarranty or quality specification. Regulatory information is for guidance purposes only. Productusers are responsible for determining the applicability of legislation and regulations based ontheir individual usage of the product.*

Authorized Signatory for the Alpha Wire Company:

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

Dave Watson, Director of Engineering & QA

11/1/2012



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Authorized Distributor

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