

# Customer Specification

## PART NO. 86606CY

### Construction

|                     |             |   |             |                |              |
|---------------------|-------------|---|-------------|----------------|--------------|
|                     |             |   |             | Diameters (In) |              |
| 1) Component 1      |             | 6 X 1 PAIR  |             |                |              |
| a) Conductor        |             | 24 (10/34) AWG Tinned Copper  |             | 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   | 3   | BLACK-GREEN | 5              | BLACK-BROWN  |
| 2                   | BLACK-WHITE | 4   | BLACK-BLUE  | 6              | BLACK-YELLOW |
| c) Pair             |             | 2/Cond Cabled Together  |             |                |              |
| (1) Twists:         |             | 9.6 Twists/foot (min)   |             |                |              |
| 2) Cable Assembly   |             | 6 Components Cabled   |             |                |              |
| a) Twists:          |             | 4.8 Twists/foot (min)   |             |                |              |
| b) Orientation:     |             | Components to be arranged from<br>INSIDE LAYER to OUTSIDE LAYER   |             |                |              |
| c) Core Wrap        |             | Nonwoven Polyester Tape, 25%<br>Overlap, Min.   |             |                |              |
| 3) Shield:          |             | Flex Alum/Mylar Tape, 25% Overlap,<br>Min.  |             |                |              |
| a) Foil Direction   |             | Foil Facing Out   |             |                |              |
| b) Drain Wire       |             | 26 (7/34) AWG Tinned Copper   |             |                |              |
| c) Braid            |             | Tinned Copper,85% Coverage, Min.  |             |                |              |
| 4) Jacket           |             | 0.040" Wall, Nom.,PVC   |             | 0.337+/- 0.017 |              |
| a) Color(s)         |             | SLATE   |             |                |              |
| b) Jacket Separator |             | Tissue Tape, 25% Overlap, Min.  |             |                |              |
| c) Print            |             | ALPHA WIRE-* P/N 86606CY 6PR 24 AWG<br>XTRAGUARD(R) CONTINUOUS FLEX DATA CABLE<br>(UL) 105C TYPE CM --- C(UL) CMG OR AWM 2661 105C<br>300V OR AWM 21894 105C 300V SUN RES 60C OIL --- |             |                |              |

|  |  |
|--|--|
|  | LLXXXXXX CSA AWM I/II A/B FT4 105C<br>300V CE ROHS (SEQ FOOTAGE)<br>* = Factory Code<br><i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> |
|--|--|

## 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                        |
|                      | AWM/STYLE 21894                     | 105°C / 300 V <sub>RMS</sub> |
|                      | SUN RES                             |                              |
|                      | 60C OIL                             |                              |
| 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 2014/35/EU |                              |

## 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 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) 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:          | 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                                  | -10 to 105°C(static), +5 to 105°C (dynamic)             |
| 2) Bend Radius  | 10X Cable Diameter(static), 15X Cable Diameter(dynamic) |
| 3) Pull Tension                                       | 46 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 Ω  |
| 5) Inductance   | 0.19 μH/ft, Nominal                                     |
| 6) Conductor DCR                                      | 29 Ω/1000ft @20°C, Nominal                              |
| 7) OA Shield DCR                                      | 2.9 Ω/1000ft @20°C, Nominal                             |

## Other

| Packaging  | Flange x Traverse x Barrel (inches)         |
|------------|---|
| a) 1000 FT | 18 x 12 x 8 Continuous length               |
| b) 500 FT  | 16 x 11 x 8 Continuous length               |
| c) 100 FT  | 12 x 10 x 5 Continuous length               |
|            | <i>[Spool dimensions may vary slightly]</i> |

[www.alphawire.com](http://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: 86606CY

86606CY, RoHS-Compliant Commencing With 8/1/2005 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) ,<br>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:

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

Dave Watson, Director of Engineering & QA

8/25/2020

Alpha Wire

711 Lidgerwood Ave.

Elizabeth, NJ 07207

Tel: 1-908-925-8000

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Authorized Distributor

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