

## Customer Specification

# PART NO. 901404CY

## Construction

|                   |              |      |         |      |       | Diameters (In)                                                                                                                                                                                                                                                                                                                                                                       |                |
|-------------------|--------------|------|---------|------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1) Component 1    |              |      |         |      |       | 4 X 1 COND                                                                                                                                                                                                                                                                                                                                                                           |                |
| a) Conductor      |              |      |         |      |       | 14 (41/30) AWG Bare Copper                                                                                                                                                                                                                                                                                                                                                           | 0.074          |
| b) Insulation     |              |      |         |      |       | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON                                                                                                                                                                                                                                                                                                                                             | 0.116          |
| (1) Print         |              |      |         |      |       | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED                                                                                                                                                                                                                                                                                                                                |                |
| (2) Color Code    |              |      |         |      |       | Alpha Wire Color Code KX                                                                                                                                                                                                                                                                                                                                                             |                |
| Cond              | Color        | Cond | Color   | Cond | Color |                                                                                                                                                                                                                                                                                                                                                                                      |                |
| 1                 | GREEN/YELLOW | 3    | BLACK#2 |      |       |                                                                                                                                                                                                                                                                                                                                                                                      |                |
| 2                 | BLACK#1      | 4    | BLACK#3 |      |       |                                                                                                                                                                                                                                                                                                                                                                                      |                |
| 2) Cable Assembly |              |      |         |      |       | 4 Components Cabled                                                                                                                                                                                                                                                                                                                                                                  |                |
| a) Twists:        |              |      |         |      |       | 3.2 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         |              |      |         |      |       | 0.050" Wall, Nom.,TPE                                                                                                                                                                                                                                                                                                                                                                | 0.418+/- 0.020 |
| a) Color(s)       |              |      |         |      |       | SLATE                                                                                                                                                                                                                                                                                                                                                                                |                |
| b) Print          |              |      |         |      |       | ALPHA WIRE-* P/N 901404CY 4C 14 AWG (2.08mm2)<br>THWN-2 (UL) TYPE TC-ER 90C WET/DRY 600V<br>OIL RES I/II SUN RES OR TYPE PLTC 90C OR C(UL) CIC<br>CONTROL/TC 90C PVC/NYLON INS FT4 14 AWG<br>OR CRU AWM I/II A/B 90C 600V FT4<br>CE ROHS (DATE CODE) (SEQ FOOTAGE)<br>* = Factory Code<br><i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> |                |

## Applicable Specifications



| Physical & Mechanical Properties |                                                       |
|----------------------------------|-------------------------------------------------------|
| 1) Temperature Range             | -30 to 90°C(static), -5 to 90°C (dynamic)             |
| 2) Bend Radius                   | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) Pull Tension                  | 138 Lbs, Maximum                                      |
| 4) Sunlight Resistance           | Yes                                                   |
| Electrical Properties            | (For Engineering purposes only)                       |
| 1) Voltage Rating                | 600 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                    | 0.17 µH/ft, Nominal                                   |
| 5) Conductor DCR                 | 2.6 Ω/1000ft @20°C, Nominal                           |
| 6) OA Shield DCR                 | 2.31 Ω/1000ft @20°C, Nominal                          |
|                                  |                                                       |

## Other

| Packaging                                                                                                | Flange x Traverse x Barrel (inches)         |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------|
| a) 1000 FT                                                                                               | 24 x 14 x 12 Continuous length              |
| b) 100 FT                                                                                                | 12 x 5.94 x 5 Continuous length             |
|                                                                                                          | <i>[Spool dimensions may vary slightly]</i> |
| Notes:                                                                                                   |                                             |
| a) Suitable for intermittent or light duty flexing where cycle count will be less than 1,500,000 cycles. |                                             |

[www.alphawire.com](http://www.alphawire.com)

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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2200 US Highway 27 South  
Richmond, IN 47374  
Tel: 1-800-52 ALPHA  
Web: [www.alphawire.com](http://www.alphawire.com)

## EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 901404CY

901404CY, RoHS-Compliant Commencing With 1/1/0001 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

### Substance

Lead  
Mercury  
Cadmium  
Hexavalent Chromium  
Polybrominated Biphenyls (PBB)  
Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE  
Bis(2-ethylhexyl) phthalate (DEHP)  
Butyl benzyl phthalate (BBP)  
Dibutyl phthalate (DBP)  
Diisobutyl phthalate (DIBP)

### Maximum Control Value

0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.01% by weight (100 ppm)  
0.1% by weight (1000 ppm )  
0.1% by weight (1000 ppm)  
  
0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 1/11/2026

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374  
Tel: 1-908-925-8000