

# Customer Specification

## PART NO. 470047CY

### Construction

|                  |          |                                                                                                                                                                        |              |                  |       |
|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------|
|                  |          |                                                                                                                                                                        |              | Diameters (mm)   |       |
| 1) Component 1   |          | 4 X 1 COND                                                                                                                                                             |              |                  |       |
| a) Conductor     |          | 0.75 (30/.177) mm <sup>2</sup> Bare Copper                                                                                                                             |              | 1.11             |       |
| b) Insulation    |          | 0.400 mm Wall, Nom. PVC                                                                                                                                                |              | 1.91+/- 0.08     |       |
| (1) Print Color  |          | WHITE                                                                                                                                                                  |              |                  |       |
| (2) Color(s)     |          |                                                                                                                                                                        |              |                  |       |
| Cond             | Color    | Cond                                                                                                                                                                   | Color        | Cond             | Color |
| 1                | BLACK #1 | 3                                                                                                                                                                      | BLACK #3     |                  |       |
| 2                | BLACK #2 | 4                                                                                                                                                                      | YELLOW/GREEN |                  |       |
| c) Cabling       |          | 4 COND Cabled                                                                                                                                                          |              |                  |       |
| (1) Twists:      |          | 10.8 Twists/meter (min)                                                                                                                                                |              |                  |       |
| (2) Orientation: |          | Components to be arranged from<br>INSIDE LAYER to OUTSIDE LAYER                                                                                                        |              |                  |       |
| d) Jacket        |          | 0.65 mm Wall, Nom.,PVC                                                                                                                                                 |              | 6.00+/- 0.20     |       |
| (1) Color(s)     |          | GREY                                                                                                                                                                   |              |                  |       |
| 2) Shield        |          | Tinned Copper BRAID Shield,80%<br>Coverage, Min.                                                                                                                       |              |                  |       |
| 3) Jacket        |          | 0.90 mm Wall, Nom.,PVC                                                                                                                                                 |              | 8.55 (8.85 Max.) |       |
| a) Color(s)      |          | Clear, Grey                                                                                                                                                            |              |                  |       |
| b) Print         |          | ALPHA WIRE-* P/N 470047CY<br>PRO-MET 300/500V 4G0.75MM2 PVC/PVC/TCB/PVC<br>MULTI CORE CONTROL CABLE ◁ VDE-REG 8770 ▷<br>CE ROHS DDDYANN XXXXXXXX M<br>* = Factory Code |              |                  |       |

### Applicable Specifications

|                |                                     |  |
|----------------|-------------------------------------|--|
| 1) IEC         |                                     |  |
| a) Component 1 | EN 60228 Conductors, Class 5        |  |
|                | DIN VDE 0295 Class 5                |  |
| 2) Other       | IEC 60332-1 Flame Behavior          |  |
|                | DIN EN 50290-2-22 Oil Resistance    |  |
|                | UV Resistant                        |  |
| 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.                                                                        |

## Properties

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Physical & Mechanical Properties |                                                        |
| 1) Temperature Range             | -40 to 80°C(static), -30 to 70°C (dynamic)             |
| 2) Bend Radius                   | 6X Cable Diameter(static), 20X Cable Diameter(dynamic) |
| 3) Sunlight Resistance           | Yes                                                    |
| Electrical Properties            | (For Engineering purposes only)                        |
| 1) Voltage Rating                | 300/500 V <sub>RMS</sub>                               |
| 2) Conductor DCR                 | 26 Ω/Km @20°C, Max.                                    |

## Other

|           |                                     |
|-----------|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 300 M  | 18 x 12 x 8 Continuous length       |

|          |                                             |
|----------|---------------------------------------------|
| b) 100 M | 12 x 10 x 5 Continuous length               |
| c) 50 M  | 12 x 10 x 5 Continuous length               |
|          | <i>[Spool dimensions may vary slightly]</i> |

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## EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 470047CY

470047CY, RoHS-Compliant Commencing With 9/1/2018 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). 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                               | 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

10/30/2023

Alpha Wire

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