

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 470075CY**  
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**Issue: 1**  
**Issue Date: 6/23/2018**  
**Effective Date: 8/18/2018**

**A. Construction**

**Diameters (mm)**

- |                |   |              |
|----------------|---|--------------|
| 1) Component 1 | 1 X 7 COND  |              |
| a) Conductor   | 0.50 (20/.177) mm <sup>2</sup> Bare Copper            | 0.91         |
| b) Insulation  | 0.400 mm Wall, Nom. PVC                               | 1.71+/- 0.05 |
| (1) Print      | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED |              |
| (2) Color(s)   |   |              |

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	4	BLACK #4	7	YELLOW/GREEN
2	BLACK #2	5	BLACK #5		
3	BLACK #3	6	BLACK #6		

- |                  |   |                  |
|------------------|---|------------------|
| c) Cabling       | 7 COND Cabled   |                  |
| (1) Twists:      | 9.8 Twists/meter (min)  |                  |
| (2) Orientation: | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER  |                  |
| d) Jacket        | 0.65 mm Wall, Nom.,PVC  | 6.54+/- 0.32     |
| (1) Color(s)     | GREY  |                  |
| 2) Shield        | Tinned Copper BRAID Shield,80% Coverage, Min.   |                  |
| 3) Jacket        | 0.95 mm Wall, Nom.,PVC  | 9.42 (9.93 Max.) |
| a) Color(s)      | Clear, Grey   |                  |
| b) Print         | ALPHA WIRE-* P/N 470075CY<br>PRO-MET 300/500V 7G0.5MM2 PVC/PVC/TCB/PVC<br>MULTI CORE CONTROL CABLE VDE-REG.-NR.8770<br>CE ROHS DDDYANN XXXXXXXX M<br>* = Factory Code |                  |

**B. Applicable Specifications**

- |                |  |
|----------------|--|
| 1) IEC         |  |
| a) Component 1 | EN 60228 Conductors, Class 5               |
| 2) Other       | IEC 60332-1 Flame Behavior<br>UV Resistant |
| 3) CE:         | EU Low Voltage Directive 2014/35/EU        |

**C. Environmental Compliance**

- |                                     |   |
|-------------------------------------|---|
| 1) CE:                              | EU Directive 2011/65/EU(RoHS2):<br>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 <a href="#">RoHS C of C</a> . |
| 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 <a href="#">Alpha's REACH SVHC Declaration</a> .  |

**D. 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  |

**E. Electrical Properties**

- |                   |                                 |
|-------------------|---------------------------------|
|                   | (For Engineering purposes only) |
| 1) Voltage Rating | 300/500 V <sub>RMS</sub>        |
| 2) Conductor DCR  | 39 Ω/Km @20°C, Nominal          |

**F. Other**

- |              |   |
|--------------|---|
| 1) Packaging | Flange x Traverse x Barrel (inches)         |
| a) 300 M     | 20 x 11 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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