

# 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  
PRO-MET 300/500V 7G0.5MM2 PVC/PVC/TCB/PVC  
MULTI CORE CONTROL CABLE VDE-REG.-NR.8770  
CE ROHS DDDYANN XXXXXXXX M  
\* = Factory Code

### B. Applicable Specifications

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

### C. Environmental Compliance

- 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](#).

### 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
- [Spool dimensions may vary slightly]*

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