

# Customer Specification

## PART NO. 470045YY

### Construction

						Diameters (mm)	
1) Component 1						4 X 1 COND	
a) Conductor						0.50 (20/.177) mm <sup>2</sup> Bare Copper	
b) Insulation						0.400 mm Wall, Nom. PVC	
(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				
2) Cable Assembly						4 Components Cabled	
a) Twists:						12.1 Twists/meter (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
3) Jacket						0.70 mm Wall, Nom.,PVC	
a) Color(s)						GREY	
b) Print						ALPHA WIRE-* P/N 470045YY PRO-MET 300/500V 4G0.5MM2 PVC/PVC MULTI CORE CONTROL CABLE □ VDE-REG 8770 □ CE ROHS DDDYANN XXXXXXX M * = Factory Code	
						5.60 (5.80 Max.)	

### 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 <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> .

# Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 80°C(static), -30 to 70°C (dynamic)
2) Bend Radius	4X Cable Diameter(static), 10X 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	39 ω/Km @20°C, Max.

# Other

Packaging	Flange x Traverse x Barrel (inches)
a) 300 M	12 x 10 x 5 Continuous length
b) 100 M	12 x 4.5 x 3.5 Continuous length
c) 50 M	12 x 4.5 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.





# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 470045YY

470045YY, RoHS-Compliant Commencing With 01/09/2018 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 Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This document also certifies that the listed part number is in compliance with the list of restricted substances to 10 items (commonly known as RoHS 3). The reader is referred to these Directives for the specific definitions of the restricted substances. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control" requirements.

## 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)  
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 this document. This document is intended to provide guidance 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 for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Alpha Wire is an Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 16/09/2025

Alpha Wire  
711 Lidgerwood Ave.  
Elizabeth, NJ 07207  
Tel: 1-908-925-8000