

Customer Specification

PART NO. 470021CY

Construction

		Diameters (mm)			
1) Component 1		2 X 1 COND			
a) Conductor		1.00 (30/0.20) mm ² Bare Copper		1.26	
b) Insulation		0.400 mm Wall, Nom. PVC		2.06+/- 0.10	
(1) Print Color		WHITE			
(2) Color Code		Alpha Wire Color Code KZ			
Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	2	BLACK #2		
c) Cabling		2 COND Cabled			
(1) Twists:		12.2 Twists/meter (min)			
(2) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
d) Jacket		0.63 mm Wall, Nom.,PVC		5.48+ / 0.20	
(1) Color(s)		GREY			
2) Shield		Tinned Copper BRAID Shield,80% Coverage, Min.			
3) Jacket		0.85 mm Wall, Nom.,PVC		7.95 (8.20 Max.)	
a) Color(s)		Clear, Grey			
b) Print		ALPHA WIRE-* P/N 470021CY PRO-MET 300/500V 2X1.0MM2 PVC/PVC/TCB/PVC MULTI CORE CONTROL CABLE □ VDE-REG 8770 □ CE ROHS DDDYANN XXXXXXX M * = 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 _{RMS}
2) Conductor DCR	19.5 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 6 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

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 470021CY

470021CY, 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 and requirements. **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)
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Dave Watson, Director of Engineering & QA 31/03/2025

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