

# Customer Specification

## PART NO. 470121CY

### Construction

		Diameters (mm)			
1) Component 1		12 X 1 COND			
a) Conductor		1.00 (30/0.20) mm <sup>2</sup> Bare Copper		1.26	
b) Insulation		0.400 mm Wall, Nom. PVC		2.06+/- 0.10	
(1) Print Color		WHITE			
(2) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	5	BLACK #5	9	BLACK #9
2	BLACK #2	6	BLACK #6	10	BLACK #10
3	BLACK #3	7	BLACK #7	11	BLACK #11
4	BLACK #4	8	BLACK #8	12	YELLOW/GI
c) Cabling		12 COND Cabled			
(1) Twists:		5.8 Twists/meter (min)			
(2) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
(3) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
d) Jacket		0.75 mm Wall, Nom.,PVC		10.27+/- 0.40	
(1) Color(s)		GREY			
2) Shield		Tinned Copper BRAID Shield,80% Coverage, Min.			
3) Jacket		1.25 mm Wall, Nom.,PVC		13.76 (14.16 Max.)	
a) Color(s)		Clear, Grey			
b) Print		ALPHA WIRE-* P/N 470121CY PRO-MET 300/500V 12G1.0MM2 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 <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	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	19.5 ω/Km @20°C, Max.

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 300 M	30 x 14 x 12 Continuous length
b) 100 M	18 x 12 x 8 Continuous length
c) 50 M	16 x 11 x 8 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 the 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.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. <br /><br />  
©2019 ALPHA WIRE - all rights reserved.



