

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 2011and 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>

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Lead	□□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	□□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□□0.1% (1000 ppm)

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