

## Customer Specification

### PART NO. 86701CY

#### Construction

					Diameters (In)	
1) Component 1	1 X 1 PAIR					
a) Conductor	22 (19/34) AWG Tinned Copper					0.032
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid					0.052
(1) Color Code	Alpha Wire Color Code A					
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED					
c) Cabling	2 COND Cabled					
(1) Twists:	8.0 Twists/foot (min)					
(2) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER					
(3) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.					
2) Shield:	Flex Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction	Foil Facing Out					
b) Drain Wire	26 (7/34) AWG Tinned Copper					
c) Braid	Tinned Copper, 85% Coverage, Nom.					
3) Jacket	0.040" Wall, Nom., PVC					0.220+/- 0.010
a) Color(s)	SLATE					
b) Jacket Separator	Tissue Tape, 25% Overlap, Min.					
c) Print	ALPHA WIRE-* P/N 86701CY 1PR 22 AWG XTRAGUARD(R) CONTINUOUS FLEX DATA CABLE (UL) TYPE PLTC 105C OR TYPE CM 105C SUN RES OR C(UL) CMG OR AWM 2661 105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C 300V CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>					

#### Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2661	105°C / 300 V <sub>RMS</sub>
	CM	105°C
	SUN RES	
	PLTC	105°C
2) CSA International	AWM I/II A/B	105°C / 300 V <sub>RMS</sub>
	C(UL) TYPE CMG	105°C
	FT4	
3) Other	Oil Resistant	
4) CE:	EU Low Voltage Directive 2014/35/EU	

## Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	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.
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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-10 to 105°C(static), +5 to 105°C (dynamic)
2) Bend Radius	10X Cable Diameter(static), 15X Cable Diameter(dynamic)
3) Pull Tension	17.3 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	41 pF/ft @1 kHz, Nominal
3) Ground Capacitance	74 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	45 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	15.1 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	4.9 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 2500 FT	18 x 14.25 x 8 Continuous length
b) 1000 FT	12 x 10.5 x 5 Continuous length
c) 500 FT	12 x 5.94 x 5 Continuous length
d) 100 FT	6.5 x 4 x 2.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

**Notes:**

a) Certain put-up combinations may only be available by special order. Minimums may apply.  
b) Oil Resistant Jacket (7d @ 60C).

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

Alpha Wire | 1320 City Center Drive, Suite 100, Carmel, IN 46032

Tel: 1-800-52 ALPHA (25742)

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## EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 86701CY

86701CY, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU (commonly known as 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 product complies with Directive 2015/863/EU which amends Directive 2011/65/EU by adding lead to the list of restricted substances. The list of restricted substances now includes 10 items (commonly known as RoHS 3). The table below provides the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. This product is also in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	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. It is not a general guide 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 to provide specific information for the product cited above. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation to their specific product.

Authorized Signatory for the Alpha Wire:

A handwritten signature in black ink that appears to read "Dave Watson".

Dave Watson, Director of Engineering 4/11/2024

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374  
Tel: 1-908-925-8000