

## **Customer Specification**

#### **PART NO. 86501CY**

#### **Construction**

						Diameters (In)	
1) Component 1						1 X 1 PAIR	
a) Conductor						26 (7/34) AWG Tinned Copper	0.019
b) Insulation						0.010" Wall, Nom. PVC, Semi Rigid	0.039
(1) Color Code					Alpha Wire Color Code A		
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED						
c) Ca	bling	•	•	•	•	2 COND Cabled	
(1) Tv	wists:					12.0 Twists/foot (min)	
(2) O	rientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
(3) C	ore 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	0.194+/- 0.010	
a) Color(s)					SLATE		
b) Ja	cket Separator					Tissue Tape, 25% Overlap, Min.	
c) Print					ALPHA WIRE-* P/N 86501CY 1PR 26 AWG XTRAGUARD(R) CONTINUOUS FLEX DATA CABLE (UL) 105C TYPE CM 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 [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]		

## **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>
	СМ	105°C
	SUN RES	
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				
-10 to 105°C(static), +5 to 105°C (dynamic)				
10X Cable Diameter(static), 15X Cable Diameter(dynamic)				
9.2 Lbs, Maximum				
Yes				
(For Engineering purposes only)				
300 V <sub>RMS</sub>				
30 pF/ft @1 kHz, Nominal				
54 pF/ft @1 kHz, Nominal				
63 Ω				
0.2 μH/ft, Nominal				
41 Ω/1000ft @20°C, Nominal				
5.9 Ω/1000ft @20°C, Nominal				

#### **Other**

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10.5 x 5 Continuous length
b) 500 FT	10.5 x 5 x 3.5 Continuous length
c) 100 FT	6.5 x 4 x 2.5 Continuous length
	[Spool dimensions may vary slightly]
Notes:	
a) Oil Resistant Jacket (7d @ 60C).	

#### www.alphawire.com

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### **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 86501CY

86501CY, 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 of the European Parliament, better known as the RoHS Directive (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 certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/1/2025

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