

## **Customer Specification**

### **PART NO. 86506CY**

#### Construction

						Diameters	(In)
1) Component 1	ent 1 6 X 1 PAIR						
a) Conductor 26 (7/34) AWG Tin		ned Copper			0.019		
b) Insulation 0.010" Wall, Nom.		PVC, Semi F			0.039		
(1) Color Code Alpha Wire Color Code A							
Pair	Color		Pair Color I		Pair	·	Color
1	BLACK-	RED	3	BLACK-GREEN	5		BLACK-BROWN
2	BLACK-	WHITE	4	BLACK-BLUE	6		BLACK-YELLOW
c) Pair		2/Cond Cabled To	gether				·
(1) Twists:		12.0 Twists/foot (r	nin)				
2) Cable Assemb	· · · · · · · · · · · · · · · · · · ·						
a) Twists:		5.3 Twists/foot (m	in)				
b) Orientation: Components to be		e arranged from INSIDE LAYER to OUTSIDE LAYER					
c) Core Wrap Nonwoven Polyes		ter Tape, 25% Overlap, Min.					
3) Shield: Flex Alum/Mylar Ta		ape, 25% Overlap, Min.					
a) Foil Direction Foil Fac		Foil Facing Out	pil Facing Out				
b) Drain Wire 26 (7/34) AW		26 (7/34) AWG Tir	AWG Tinned Copper				
c) Braid Tinned Copper,85		% Coverage, Nom.					
4) Jacket		0.040" Wall, Nom.,PVC				0.313+/- 0.017	
a) Color(s) SLATE							
b) Jacket Separat	tor	Tissue Tape, 25%	Overlap, Mir	Ι.			
c) Print		ALPHA WIRE-* P/N 86506CY 6PR 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/E	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 190	)7/2006):
	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	34 Lbs, Maximum		
4) Sunlight Resistance	Yes		
<b>Electrical Properties</b>	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Mutual Capacitance	20.8 pF/ft @1 kHz, Nominal		
3) Ground Capacitance	37 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	90 Ω		
5) Inductance	0.2 μH/ft, Nominal		
6) Conductor DCR	42 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	3.7 Ω/1000ft @20°C, Nominal		

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 9 x 8 Continuous length	
b) 500 FT	12 x 10.5 x 5 Continuous length	
c) 100 FT	10.5 x 5 x 3.5 Continuous length	
	[Spool dimensions may vary slightly]	
Notes:		
a) Oil Resistant Jacket (7d @ 60C).		

#### www.alphawire.com

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#### Tel: 1-800-52 ALPHA

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

To Whom It May Concern:

Alpha Wire Part Number: 86506CY

86506CY, 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 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)

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 its release. The information provided is designed only as 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 not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/4/2024

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