

# **Customer Specification**

#### **PART NO. 86002CY**

#### **Construction**

				Diameters (I	n)
1) Component 1	2 X 1 COND				
a) Conductor	28 (7/36) AWG Tinned Copper			0.015	
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid			0.035	
(1) Color Code	Alpha Wire Color Code D				
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		
2) Cable Assembly	2 Components Cabled				
a) Twists:	16.0 Twists/foot (min)				
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	Flex Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing Out				
b) Drain Wire	26 (7/34) AWG Tinned Copper				
c) Single Serve	Tinned Copper,90% Coverage, Nom.				
4) Jacket	0.040" Wall, Nom.,PVC			0.174+/- 0.01	0
a) Color(s)	SLATE				
b) Jacket Separator	Tissue Tape, 25% O	verlap, Min.			
c) Print	ALPHA WIRE-* P/N XTRAGUARD(R) CO (UL) 105C TYPE CM AWM 2661 105C 30 CSA AWM I/II A/B F ROHS OIL RESISTAN * = Factory Code [Note: Product may	NTINUOUS FLEX DA SUN RES OR C(UL) 10V LLXXXXXX T4 105C 300V CE NT (SEQ FOOTAGE)	ATA CABLE CMG OR	on plant of manufacture	·]

## **Applicable Specifications**

1) UL			
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>	
b) Overall	SUN RES		
	AWM/STYLE 2661	105°C / 300 V <sub>RMS</sub>	
	СМ	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 2014/3	5/EU	

## **Environmental**

1) CE: EU Directive 2011/65/8	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	07/2006):
	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	8X Cable Diameter(static), 8X Cable Diameter(dynamic)	
3) Pull Tension	6.6 Lbs, Maximum	
4) Sunlight Resistance	Yes	
<b>Electrical Properties</b>	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Capacitance	26 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	47 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	71 Ω	
5) Inductance	0.22 μH/ft, Nominal	
6) Conductor DCR	66 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	9.1 Ω/1000ft @20°C, Nominal	•

### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	12 x 5.94 x 5 Continuous length	
b) 500 FT	10.5 x 5 x 3.5 Continuous length	
c) 100 FT	6.5 x 2 x 1.9 Continuous length	
	[Spool dimensions may vary slightly]	
Notes:	·	
a) Oil Resistant Jacket (7d @ 60C).		

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

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: 86002CY

86002CY, 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 5/1/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-908-925-8000