

### **Customer Specification**

PART NO. SF61223CY

Construction

							Diameters (In)	
1) Com	ponent 1						4 X 1 COND	
a) Conductor							10 (105/30) AWG Tinned Copper	0.118
b) Insulation							0.022" Wall, Nom. PVC/ 0.005" Wall NYLON	0.172
(1) Print							ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND	
(2) Colo	or Code						Alpha Wire Color Code KX	-
Cond	Color		Cond	Color	Cond	Color		-'
1	GREEN/YELL	ow	3	BLACK#2				
2	BLACK#1		4	BLACK#3		_		
-	ponent 2						2 X 1 PAIR	
a) Cond	-						16 (26/30) AWG Tinned Copper	0.060
b) Insu							0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.102
- ·	or Code						Alpha Wire Color Code A	
	Color	Pair	Colo	r	Pair	Color		_1
	BLACK-RED	2		K-WHITE	Pall	COIOI		
c) Pair	DLACK-RED	2					2/Cond Cabled Together	
-	-t						5.3 Twists/foot (min)	
(1) Twis								<u> </u>
	ually Applied							
d) Shie							Flex Alum/Mylar Tape, 25% Overlap, Min.	
	Direction						Foil Facing Out	
(2) Drain Wire							22 (7/30) AWG Tinned Copper	
(3) Braid							Tinned Copper,85% Coverage, Min.	
e) Jacket							0.016" Wall, Nom.,TPE	0.262 (0.273 Max.)
(1) Color(s)							NATURAL	-
(2) Print							ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
3) Cable Assembly							6 Components Cabled	
a) Twists:							2.0 Twists/foot (min)	
b) Orientation:							Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap							REMAY Tape, 25% Overlap, Min.	
4) Shield:							A/P/A Tape, 25% Overlap, Min.	
a) Drain Wire							22 (7/30) AWG Tinned Copper	
b) Braid							Tinned Copper,85% Coverage, Min.	
5) Jacket							0.065" Wall, Nom.,TPE	0.792+/- 0.037
a) Color(s)							ORANGE	
b) Jacket Separator							Tissue Tape, 25% Overlap, Min.	
c) Print							ALPHA WIRE-* P/N SF61223CY 4C10 THHN 2PR16 TFFN E324185 (UL) WTTC 90C 1000 VOLT OR (UL) TC-ER 90C 600V OIL RES I/II SUN RES OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS SHIELDED FT4 4C10 2PR16 LLXXXXXX CSA AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code	
							[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

90°C / 600 V <sub>RMS</sub> 90°C / 600 V <sub>RMS</sub> 90°C / 600 V <sub>RMS</sub> 8UN
90°C / 600 V <sub>RMS</sub>
RUN
90°C / 1000 V <sub>RMS</sub>
/B 90°C / 600 V <sub>RMS</sub>
CONTROL 90°C / 600 V <sub>RMS</sub>
90°C / 600 V <sub>RMS</sub>
s NEMA Class K

### Environmental

1) EU Directive 2011/65/EU(RoHS2):		
	All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for <u>RoHS C of C</u> .	
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 <u>Alpha's REACH SVHC Declaration</u> .	
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.	

# Properties

1) Temperature Range	-30 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	10X Cable Diameter(static), 10X Cable Diameter(dynamic)
3) Pull Tension	459 Lbs, Maximum
4) Sunlight Resistance	Yes
<b>Electrical Properties</b>	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Component 1	
a) Capacitance	61 pF/ft @1 kHz, Nominal Conductor to Conductor
b) Ground Capacitance	110 pF/ft @1 kHz, Nominal
c) Inductance	0.16 µH/ft, Nominal
d) Conductor DCR	1.11 Ω/1000ft @20°C, Nominal
3) Component 2	
a) Mutual Capacitance	53 pF/ft @1 kHz, Nominal
b) Ground Capacitance	95 pF/ft @1 kHz, Nominal
c) Characteristic Impedance	41 Ω
d) Inductance	0.18 μH/ft, Nominal
e) Conductor DCR	4.6 Ω/1000ft @20°C, Nominal
f) Component Shield DCR	3.1 Ω/1000ft @20°C, Nominal
4) OA Shield DCR	0.8 Ω/1000ft @20°C, Nominal

### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
	[Spool dimensions may vary slightly]
Notes:	
a) Suitable for use in Industrial Machinery per the requirements of NFPA-79	
b) Suitable for intermittent or light duty flexing where cycle count will be less than 1,000,000 cycles.	
	-

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

💋 AlphaWire

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

To Whom It May Concern:

Alpha Wire Part Number: SF61223CY

#### SF61223CY, RoHS-Compliant Commencing With 12/22/2008 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 4/1/2025

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