

Customer Specification

PART NO. SF61224CY

Construction

_OW _	4 Color	Color BLACK#2 BLACK#3	Pair	Color	4 X 1 COND 8 (168(7x24)/30) AWG Tinned Copper 0.032" Wall, Nom. PVC/ 0.006" Wall NYLON ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED Alpha Wire Color Code KX 2 X 1 PAIR 16 (26/30) AWG Tinned Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out 22 (7/30) AWG Tinned Copper	0.168 0.244 0.060 0.102
Pair 2	3 4 Color	BLACK#2 BLACK#3			0.032" Wall, Nom. PVC/ 0.006" Wall NYLON ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED Alpha Wire Color Code KX 2 X 1 PAIR 16 (26/30) AWG Tinned Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	0.244
Pair 2	3 4 Color	BLACK#2 BLACK#3			0.032" Wall, Nom. PVC/ 0.006" Wall NYLON ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED Alpha Wire Color Code KX 2 X 1 PAIR 16 (26/30) AWG Tinned Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	0.060
Pair 2	3 4 Color	BLACK#2 BLACK#3			ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED Alpha Wire Color Code KX 2 X 1 PAIR 16 (26/30) AWG Tinned Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
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Pair 2	3 4 Color	BLACK#2 BLACK#3			16 (26/30) AWG Tinned Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
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Pair 2	4 Color	BLACK#3	Pair	Color	16 (26/30) AWG Tinned Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
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2	-		Pair	Color	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
2	-		Pair	Color	Alpha Wire Color Code A 2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
2	-		Pair	Color	2/Cond Cabled Together 5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
2	-				5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
		K-WHITE			5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
l:					5.3 Twists/foot (min) Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
l:					Flex Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out	
l:					Foil Facing Out	
					Foil Facing Out	
					22 (7/30) AWG Tinned Copper	
					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	
3) Cable Assembly					6 Components Cabled	
a) Twists:					1.7 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					0.085" Wall, Nom.,TPE	0.972+/- 0.039
a) Color(s)					ORANGE	
b) Jacket Separator					Tissue Tape, 25% Overlap, Min.	
c) Print					ALPHA WIRE-* P/N SF61224CY 4C8 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 4C8 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	
						A/P/A Tape, 25% Overlap, Min.22 (7/30) AWG Tinned CopperTinned Copper,85% Coverage, Min.0.085" Wall, Nom.,TPEORANGETissue Tape, 25% Overlap, Min.ALPHA WIRE-* P/N SF61224CY4C8 THHN 2PR16 TFFN E324185 (UL) WTTC 90C1000 VOLT OR (UL) TC-ER 90C 600V OIL RES I/II SUNRES OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INSSHIELDED FT4 4C8 2PR16 LLXXXXXX CSA AWMI/II A/B 90C 600V FT4 CE ROHS(DATE CODE) (SEQ FOOTAGE)* = Factory Code

90°C / 600 V _{RMS} 90°C / 600 V _{RMS} 90°C / 600 V _{RMS} 8UN
90°C / 600 V _{RMS}
RUN
90°C / 1000 V _{RMS}
/B 90°C / 600 V _{RMS}
CONTROL 90°C / 600 V _{RMS}
90°C / 600 V _{RMS}
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	657 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Component 1		
a) Capacitance	57 pF/ft @1 kHz, Nominal Conductor to Conductor	
b) Ground Capacitance	103 pF/ft @1 kHz, Nominal	
c) Inductance	0.16 μH/ft, Nominal	
d) Conductor DCR	0.7 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	0.91 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	48 x 26 x 18 Continuous length
b) 500 FT	36 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.	
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www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: SF61224CY

SF61224CY, RoHS-Compliant Commencing With 2/9/2009 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 8/7/2025

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