

Customer Specification

PART NO. SF61112CY

Construction

				Diameters (In)		
1) Component 1	1 4 X 1 COND					
a) Conductor	12 (65/30) AWG Tinr	12 (65/30) AWG Tinned Copper		0.093		
b) Insulation	0.016" Wall, Nom. P\	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.135		
(1) Print	ALPHANUMERIC NU INVERTED	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED				
(2) Color Code	Alpha Wire Color Co	de KX				
Cond	Color	Cond	Color	Cond	Color	
1	GREEN/YELLOW	3	BLACK#2			
2	BLACK#1	4	BLACK#3			
2) Cable Asseml	bly 4 Components Cable	ed				
a) Twists:	3.7 Twists/foot (min)					
b) Orientation: Components to be arr		rranged from INSIDE	nged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap	REMAY Tape, 25% O	REMAY Tape, 25% Overlap, Min.				
3) Shield:	A/P/A Tape, 25% Ov	A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire	20 (19/32) AWG Tinr	20 (19/32) AWG Tinned Copper				
b) Braid	Tinned Copper,85%	Tinned Copper,85% Coverage, Min.				
4) Jacket	0.065" Wall, Nom.,TP	0.065" Wall, Nom.,TPE				
a) Color(s)	ORANGE					
b) Jacket Separator Tissue Tape, 25% Ov		erlap, Min.				
c) Print	THHN E324185 (UL) TC-ER 90C 600V OIL CONTROL/TC 90C PV LLXXXXXX CSA A' CE ROHS (DATE COE * = Factory Code	ALPHA WIRE-* P/N SF61112CY 4C 12 AWG THHN 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 12 AWG 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 main				

Applicable Specifications

1) UL		
a) Component 1	THHN	90°C / 600 V _{RMS}
b) Overall	ТС	90°C / 600 V _{RMS}
	EXPOSED RUN	
	OIL RES I/II	
	SUN RES	
	WTTC	90°C / 1000 V _{RMS}
2) CSA International	AWM I/II A/B	90°C / 600 V _{RMS}
	FT4	
	C(UL) CIC CONTROL	90°C / 600 V _{RMS}
	C(UL) TC	90°C / 600 V _{RMS}
3) Other	Conductors NEMA Class K	
	Conductors IEC Class 5 on AWG size	
4) CE:	EU Low Voltage Directive 2014/35/EC	

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 RoHS C of C.	
2) REACH Regulation (EC 19	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. 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

Physical & Mechanical 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	223 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	60 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	108 pF/ft @1 kHz, Nominal			
4) Inductance	0.16 μH/ft, Nominal			
5) Conductor DCR	1.78 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	1.83 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)			
a) 1000 FT	24 x 14 x 12 Continuous length			
b) 500 FT	20 x 11 x 8 Continuous length			
c) 100 FT	16 x 11 x 8 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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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: SF61112CY

SF61112CY, 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 "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 5/5/2024

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