

Customer Specification PART NO. SF61112CY

Construction

				Diameters (In)		
1) Component 1		4 X 1 COND				
a) Conductor		12 (65/30) AWG TC		0.093	0.093	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		ON 0.135	0.135	
(1) Print		ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED				
(2) Color Code		Alpha Wire Color Code KX				
Cond	Color	Cond	Color	Cond	Color	
1	GREEN/YELLOW	3	BLACK#2			
2	BLACK#1	4	BLACK#3			
2) Cable Assembly		4 Components Cabled				
a) Twists:		3.7 Twists/foot (min)				
b) Core Wrap		REMAY Tape, 25% Overlap, Min.				
3) Shield:		A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire		20 (19/32) AWG TC				
b) Braid		TC,85% Coverage, Min.				
4) Jacket		0.065" Wall, Nom.,TPE		0.508+/- 0.021	0.508+/- 0.021	
a) Color(s)		ORANGE				
b) Jacket Separator		Tissue Tape, 25% Overlap, Min.				
c) Print		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 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 manufacture.]				

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) CE:	EU Low Voltage Directive 2006/95/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 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 Alpha's REACH SVHC Declaration.			
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	-25 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	10X Cable Diameter
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				

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: SF61112CY

SF61112CY, RoHS-Compliant Commencing With 2/9/2009 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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)

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 Company:

Dave Watson, Director of Engineering & QA

2/27/2013