

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: SF61112CY
Page 1 of 2 Pages

Issue: 4
Issue Date: 10/13/2011
Effective Date: 11/4/2011

A. Construction

		<u>Diameters (In)</u>																		
1)	Component 1	4 X 1 COND																		
a)	Conductor	12 (65/30) AWG TC																		
b)	Insulation	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON																		
	(1) Print	0.135																		
		ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND																		
		INVERTED																		
(2)	Color Code	Alpha Wire Color Code KX																		
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Cond</th><th>Color</th><th>Cond</th><th>Color</th><th>Cond</th><th>Color</th></tr> </thead> <tbody> <tr> <td>1</td><td>GREEN/YELLOW</td><td>3</td><td>BLACK#2</td><td></td><td></td></tr> <tr> <td>2</td><td>BLACK#1</td><td>4</td><td>BLACK#3</td><td></td><td></td></tr> </tbody> </table>	Cond	Color	Cond	Color	Cond	Color	1	GREEN/YELLOW	3	BLACK#2			2	BLACK#1	4	BLACK#3		
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	REMY 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																		
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.]

B. Applicable Specifications

1)	UL	THHN	90°C / 600 V _{RMS}
	a)	Component 1	90°C / 600 V _{RMS}
	b)	Overall	
		EXPOSED RUN	
		OIL RES I/II	
		SUN RES	
2)	CSA International	WTTC	90°C / 1000 V _{RMS}
		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:	LVD 73/23/EEC Amendment 93/68/EEC	

C. Environmental Compliance

- 1) EU Directive 2002/95/EC(RoHS): All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
- 2) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

D. Physical & Mechanical 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

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E. 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 μ H/ft, Nominal
5) Conductor DCR	1.78 Ω /1000ft @20°C, Nominal
6) OA Shield DCR	1.83 Ω /1000ft @20°C, Nominal

F. Other

1) 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 <i>[Spool dimensions may vary slightly]</i>

2) Notes:

- a) Suitable for use in Industrial Machinery per the requirements of NFPA-79

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