

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: SF61108CY**  
**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	8 (168(7x24)/30) AWG TC																		
b)	Insulation	0.032" Wall, Nom. PVC/ 0.006" Wall NYLON																		
	(1) Print	0.244																		
		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:	2.1 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 SF61108CY 4C 8 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 8 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 <sub>RMS</sub>
	a)	Component 1	TC
	b)	Overall	90°C / 600 V <sub>RMS</sub>
		EXPOSED RUN	
		OIL RES I/II	
		SUN RES	
2)	CSA International	WTTC	90°C / 1000 V <sub>RMS</sub>
		AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
		FT4	
		C(UL) CIC CONTROL	90°C / 600 V <sub>RMS</sub>
		C(UL) TC	90°C / 600 V <sub>RMS</sub>
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      563 Lbs, Maximum
- 4) Sunlight Resistance      Yes

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**E. Electrical Properties** (For Engineering purposes only)

- 1) Voltage Rating 600 V<sub>RMS</sub>
- 2) Capacitance 57 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 103 pf/ft @1 kHz, Nominal
- 4) Inductance 0.16  $\mu$ H/ft, Nominal
- 5) Conductor DCR 0.7  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR 0.77  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

- 1) Packaging
  - a) 1000 FT Flange x Traverse x Barrel (inches)  
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]
- 2) Notes:
  - a) Suitable for use in Industrial Machinery per the requirements of NFPA-79

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