



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. SF61223CY

Construction

		Diameters (In)			
1) Component 1		4 X 1 COND			
a) Conductor		10 (105/30) AWG TC		0.118	
b) Insulation		0.022" Wall, Nom. PVC/ 0.005" Wall NYLON		0.172	
(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) Component 2		2 X 1 PAIR			
a) Conductor		16 (26/30) AWG TC		0.060	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.102	
(1) Color Code		Alpha Wire Color Code A			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	2	BLACK-WHITE		
c) Pair		2/Cond Cabled Together			
(1) Twists:		5.3 Twists/foot (min)			
Individually Applied:					
d) Shield:		Flex Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
(2) Drain Wire		22 (7/30) AWG TC			
(3) Braid		TC,85% Coverage, Min.			
e) Over Wrap:		PTFE(skived) Tape, 25% Overlap, Min.			
3) Cable Assembly		6 Components Cabled			
a) Twists:		2.2 Twists/foot (min)			
b) Core Wrap		REMA Y Tape, 25% Overlap, Min.			
4) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG TC			
b) Braid		TC,85% Coverage, Min.			
5) Jacket		0.065" Wall, Nom.,TPE		0.759+/- 0.032	
a) Color(s)		ORANGE			
b) Jacket Separator		Tissue Tape, 25% Overlap, Min.			
c) Print		ALPHA WIRE-* P/N SF61223CY 4C10 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 FT4 4C10 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 upon plant of manufacture.]			

Applicable Specifications

1) UL		
a) Component 1	THHN	90°C / 600 V _{RMS}
b) Component 2	TFFN	90°C / 600 V _{RMS}
c) Overall	TC	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:	LVD 73/23/EEC Amendment 93/68/EEC	

Environmental

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.

Properties

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	459 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Component 1	
a) Capacitance	61 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Ground Capacitance	110 pf/ft @1 kHz, Nominal
c) Inductance	0.16 µH/ft, Nominal
d) Conductor DCR	1.11 /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
d) Inductance	0.18 µH/ft, Nominal
e) Conductor DCR	4.6 /1000ft @20°C, Nominal
f) Component Shield DCR	3.1 /1000ft @20°C, Nominal
4) OA Shield DCR	0.77 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Suitable for use in Industrial Machinery per the requirements of NFPA-79	

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

Although Alpha Wire (“Alpha”) makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an “AS IS” basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.