



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	

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