

Customer Specification PART NO. SF61220CY

Construction

				Diameters (In)		
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		16 (26/30) AWG TC	16 (26/30) AWG TC		0.060	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.102	0.102	
(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		18 (19/30) AWG TC	18 (19/30) AWG TC		0.050	
b) Insulation		0.016" Wall, Nom. PV	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.092	
(1) Color Code		Alpha Wire Color Cod	e A	•		
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED	2	BLACK-WHITE			
c) Pair	•	2/Cond Cabled Toget	ner		•	
(1) Twists:		6.0 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:		3.0 Twists/foot (min)				
b) Core Wrap		REMAY 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		0.592+/- 0.027		
a) Color(s)		ORANGE				
b) Jacket Separator		Tissue Tape, 25% Overlap, Min.				
c) Print		ALPHA WIRE-* P/N SF61220CY 4C 16 AWG 2PR 18 AWG 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 4C16 2PR18 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.]				

1) UL		
a) Component 1	TFFN	90°C / 600 V _{RMS}
b) Component 2	TFFN	90°C / 600 V _{RMS}
c) Overall	тс	90°C / 600 V _{RMS}
	EXPOSED RUN	
	OIL RES I/II	
	SUN RES	
	wттс	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	177 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Component 1		
a) Capacitance	48 pf/ft @1 kHz, Nominal Conductor to Conductor	
b) Ground Capacitance	86 pf/ft @1 kHz, Nominal	
c) Inductance	0.18 μH/ft, Nominal	
d) Conductor DCR	4.5 /1000ft @20°C, Nominal	
3) Component 2		
a) Mutual Capacitance	48 pf/ft @1 kHz, Nominal	
b) Ground Capacitance	86 pf/ft @1 kHz, Nominal	
c) Characteristic Impedance	46	
d) Inductance	0.19 μH/ft, Nominal	
e) Conductor DCR	6.2 /1000ft @20°C, Nominal	
f) Component Shield DCR	2.9 /1000ft @20°C, Nominal	
4) OA Shield DCR	1.31 /1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	30 x 14 x 12 Continuous length	
b) 500 FT	24 x 14 x 12 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: SF61220CY

SF61220CY, RoHS-Compliant Commencing With 2/9/2009 Production

This document certifies that the Alpha part number cited above are manufactured in accordance with Directive 2011/65/EC 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

SubstanceMaximum Control ValueLead0.1% by weight (1000 ppm)Mercury0.1% by weight (1000 ppm)Cadmium0.01% by weight (100 ppm)Hexavalent Chromium0.1% by weight (1000 ppm)Polybrominated Biphenyls (PBB)0.1% by weight (1000 ppm)Polybrominated Diphenyl Ethers (PBDE) ,Including Deca-BDE0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

12/20/2012