



Customer Specification

PART NO. 1827C

Construction

		Diameters (In)			
1) Component 1		5 X 1 COND			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.010" Wall, Nom. PVC		0.050	
(1) Color Code		Alpha Wire Color Code I			
Cond	Color	Cond	Color	Cond	Color
1	GREEN	3	BROWN	5	ORANGE
2	WHITE	4	BLUE		
2) Component 2		2 X 1 COND			
a) Conductor		18 (16/30) AWG TC		0.047	
b) Insulation		0.018" Wall, Nom. PVC		0.083	
(1) Color Code		Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		
3) Cable Assembly		7 Components Cabled			
a) Twists:		4.4 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
4) Jacket		0.028" Wall, Nom.,PVC		0.247 (0.259 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 1827C 5C 22 AWG 2C 18 AWG 75C (UL) TYPE CM OR C(UL) 60C TYPE CMG FT4 ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL	CM	75°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	60°C
	FT4	

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	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	53 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Component 1	
a) Capacitance	33 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Inductance	0.18 µH/ft, Nominal
c) Conductor DCR	16.4 /1000ft @20°C, Nominal
3) Component 2	
a) Capacitance	32 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Inductance	0.18 µH/ft, Nominal
c) Conductor DCR	7.2 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:1827C

1827C , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011