

Customer Specification

PART NO. 1828C

Construction

						Diameter ("in")	
1) Component 1						6 x 1 COND	
a) Conductor						22 (7/30) AWG Tinned Copper	
b) Insulation						0.010" Wall, Nom. PVC	
(1) Color Code						Alpha Wire Color Code I	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN	3	BROWN	5	ORANGE		
2	WHITE	4	BLUE	6	YELLOW		
2) Component 2						2 X 1 COND	
a) Conductor						18 (16/30) AWG Tinned Copper	
b) Insulation						0.018" Wall, Nom. PVC	
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	2	RED				
3) Cable Assembly						8 Components Cabled	
a) Twists						4.0 Twists/foot (min.)	
b) Orientation						Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap (min.)	
4) Jacket						0.028" Wall, Nom. PVC	
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 1828C 6C 22 AWG 2C 18 AWG 75C (UL) TYPE CM OR C(UL) TYPE CMG FT4 CE ROHS * = Factory Code <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>	

Applicable Specifications

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1) UL	CM	75°C
	VW-1	
2) CSA International	CMG	60°C
	FT4	
3) CE	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3)	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
2) REACH Regulation (EC 1907/2006)	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.
3) California Proposition 65	
	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more detail.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	58 lbs. (max.)
Electrical Properties	
<i>(For Engineering purposes only)</i>	
1) Voltage Rating	300 V _{RMS}
2) Component 1	
a) Capacitance	29 pF/ft @1 kHz, Nominal Conductor-to-Conductor
b) Inductance	0.18 μH/ft, Nominal
c) Conductor DCR	16.4 ω/1000ft @20°C, Nominal
3) Component 2	
a) Capacitance	29 pF/ft @1 kHz, Nominal Conductor-to-Conductor
b) Characteristic Impedance	72 ω
c) Inductance	0.18 μH/ft, Nominal
d) Conductor DCR	7 ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	13.5 x 10 x 4 Continuous Length
	<i>Spool dimensions may vary slightly.</i>

www.alphawire.com

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