

Request a Sample

Customer Specification PART NO. 1828C

Construction

Constituction				1		
				Diameters (In)		
1) Component 1		6 X 1 COND	6 X 1 COND			
a) Conductor		22 (7/30) AWG TO	22 (7/30) AWG TC		0.030	
b) Insulation		0.010" Wall, Nom	0.010" Wall, Nom. PVC		0.050	
(1) Color Code		Alpha Wire Color	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	2 X 1 COND			
a) Conductor		18 (16/30) AWG	18 (16/30) AWG TC		0.047	
b) Insulation		0.018" Wall, Nom	0.018" Wall, Nom. PVC		0.083	
(1) Color Code		Alpha Wire Color	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	2	RED			
3) Cable Assembly		8 Components Ca	8 Components Cabled			
a) Twists:		4.0 Twists/foot (m	4.0 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape	Clear Mylar Tape, 25% Overlap, Min.			
4) Jacket		0.028" Wall, Nom	0.028" Wall, Nom.,PVC		0.261 (0.274 Max.)	
a) Color(s)		SLATE	SLATE			
b) Print		75C (UL) TYPE C CE ROHS * = Factory Code				

Applicable Specifications

1) UL	СМ	75°C
	VW-1	
2) CSA International	СМС	60°C
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):				
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.			
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.			
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

Properties

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Physical & Mechanical Properties				
1) Temperature Range	-20 to 75°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	58 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 Ω/1000ft @20°C, Nominal			
3) Component 2				
a) Capacitance	32 pf/ft @1 kHz, Nominal Conductor to Conductor			
b) Characteristic Impedance	68 Ω			
c) Inductance	0.18 μH/ft, Nominal			
d) Conductor DCR	7.2 Ω/1000ft @20°C, Nominal			

Other

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

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 1828C

1828C, RoHS-Compliant Commencing With 3/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% 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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

Alpha Wire

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