

Customer Specification

PART NO. 2421C

Construction

				Diameters (In)	
1) Component 1	2 X 1 COND				
a) Conductor	18 (16/30) AWG Tinned Copper			0.047	
b) Insulation	0.016" Wall, Nom. FRPE			0.079	
(1) Color Code	Alpha Wire Color Code F				
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	WHITE		
2) Cable Assembly	2 Components Cabled				
a) Twists:	5.3 Twists/foot (min)				
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing Out				
b) Drain Wire	20 (10/30) AWG Tinned Copper				
4) Jacket	0.020" Wall, Nom.,PVC			0.202 (0.212 Max.)	
a) Color(s)	Slate, Brown				
b) Print	ALPHA WIRE-* P/N 2421C 2C 18 AWG SHIELDED 75C (UL) TYPE CMG OR AWM 2092 ---- C(UL) CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL	AWM/STYLE 2092	60°C / 300 V _{RMS}
	CMG	75°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	75°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) 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 information.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	33 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Capacitance	31 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	56 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	54 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	7 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	8.5 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 3000 FT	18 x 14.25 x 8 Continuous length
b) 1000 FT	12 x 10.5 x 5 Continuous length
c) BOX 1000FT	11-3/4 EASY REEL: Continuous length
d) BOX 500FT	9-1/2 EASY REEL: Continuous length
e) 500 FT	10.5 x 5 x 3.5 Continuous length
f) 328 FT	10.5 x 5 x 3.5 Continuous length
g) 100 FT	6.5 x 4 x 2.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Certain color and putup combinations for Special only. Minimum order quantity may apply.	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 2421C

2421C, RoHS-Compliant Commencing With 11/1/2004 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/6/2024

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