

# Customer Specification PART NO. 2421C

### Construction

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

## **Applicable Specifications**

1) UL	AWM/STYLE 2092	60°C / 300 V <sub>RMS</sub>
	СМС	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):		
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.	
2) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement 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 <sub>RMS</sub>
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) 1000 FT	12 x 10 x 5 Continuous length
b) BOX 1000FT	11-3/4 EASY REEL: Continuous length

c) BOX 500FT	9-1/2 EASY REEL: Continuous length	
d) 500 FT	12 x 4.5 x 3.5 Continuous length	
e) 328 FT	12 x 4.5 x 3.5 Continuous length	
f) 100 FT	6.5 x 4 x 2.5 Continuous length	
	[Spool dimensions may vary slightly]	
Notes:		
a) Certain color and putup combinations for Special only. Minimum order quantity may apply.		

#### www.alphawire.com

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#### **EU/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 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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

9/5/2020

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**Authorized Distributor** 

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#### Alpha Wire:

2421C SL005 2421C SL001 2421C SL021 2421C SL002 2421C SL022