

Customer Specification

PART NO. 6417

Construction

				Diar	neters (In)		
1) Component 1	2 X 1 PAIR	2 X 1 PAIR					
a) Conductor	22 (7/30) AWG Tinne	22 (7/30) AWG Tinned Copper			0.030		
b) Insulation	0.013" Wall, Nom. PV	0.013" Wall, Nom. PVC			0.056		
(1) Print	ALPHANUMERIC NU INVERTED	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED					
(2) Color Code	Alpha Wire Color Co	de BR					
Pair	Color	Pair	Color		Pair	Color	
1	BLACK#1-RED#1	2	BLACK#2-RED#	2			
c) Pair	2/Cond Cabled Toge	ther					
(1) Twists:	8.0 Twists/foot (appr	8.0 Twists/foot (approx.)					
2) Cable Assemb	ly 2 Components Cable	2 Components Cabled					
a) Twists:	4.4 Twists/foot (min)	4.4 Twists/foot (min)					
b) Orientation:	Components to be a	Components to be arranged from INSIDE LAYER to OUTSIDE LAYE		AYER			
c) Core Wrap	Clear Mylar Tape, 25	Clear Mylar Tape, 25% Overlap, Min.					
3) Shield:	Alum/Mylar Tape, 25	Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction	Foil Facing In						
b) Drain Wire	24 (7/32) AWG Tinne	24 (7/32) AWG Tinned Copper					
4) Jacket	0.038" Wall, Nom.,PV	0.038" Wall, Nom.,PVC		0.26	0.267 (0.280 Max.)		
a) Color(s)	SLATE	SLATE					
b) Print	ALPHA WIRE-* P/N 6417 2PR 22 AWG SHIELDED 105C (UL) TYPE PLTC SUN RES OR TYPE CM OR C(UL) 60C TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]						

Applicable Specifications

1) UL	СМ	105°C	
	PLTC	105°C	
	SUN RES		
2) CSA International	C(UL) TYPE CMG	60°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

1) CE: EU Directive 2011/65/E	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 190	17/2006):
	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 information.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-20 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	26 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	34 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	61 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	59 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	15.8 Ω/1000ft @20°C, Nominal	

Other

Flange x Traverse x Barrel (inches)	
13.5 x 10 x 4 Continuous length	
12 x 10.5 x 5 Continuous length	
[Spool dimensions may vary slightly]	
-	12 x 10.5 x 5 Continuous length

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6417

6417, RoHS-Compliant Commencing With 8/1/2005 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 2 per GB/T 26572-2011.

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 4/28/2024

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