



# **Customer Specification**

**PART NO. 6022C** 

Construction				

						Diameter ("in")	
1) Component 1					27 x 1 PAIR		
a) Conductor					22 (7/30) AWG Tinned Copper	0.030	
b) Insulation					0.010" Wall, Nom. FRPP	0.050	
(1) Color Code					Alpha Wire Color Code A		
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	10	RED-BLUE	19	WHITE- BLUE		
2	BLACK- WHITE	11	RED- YELLOW	20	WHITE- BROWN		
3	BLACK- GREEN	12	RED- BROWN	21	WHITE- ORANGE		
4	BLACK- BLUE	13	RED- ORANGE	22	WHITE- YELLOW		
5	BLACK- BROWN	14	GREEN- BLUE	23	BLUE- BROWN		
6	BLACK- YELLOW	15	GREEN- WHITE	24	BLUE- ORANGE		
7	BLACK- ORANGE	16	GREEN- BROWN	25	BLUE- YELLOW		
8	RED-GREEN	17	GREEN- ORANGE	26	BROWN- ORANGE		
9	RED-WHITE	18	GREEN- YELLOW	27	BROWN- YELLOW		
c) Pair					2/Cond Cabled Together		
(1) Twists					8.0 Twists/foot (min.)		
Indiv	Individually Applied						
d) Sł	nield					Foil Free Alum/Mylar Tape, 25% Overlap (min.)	
(1) Foil Direction					Foil Facing In		
(2) D	rain Wire					22 (7/30) AWG Tinned Copper	
2) Ca	able Assembly					27 Components Cabled	
a) Tv	vists					1.4 Twists/foot (min.)	
b) Orientation					Components to be arranged from INSIDE LAYER-to- OUTSIDE LAYER		
c) Core Wrap					Clear Mylar Tape, 25% Overlap (min.)		
3) Jacket					0.063" Wall, Nom. PVC	0.698 (0.731 max.)	
a) Color(s)					SLATE		
b) Print					ALPHA WIRE-* P/N 6022C 27PR 22 AWG SHIELDED 75C (UL) C(UL) TYPE CMG FT4 OR AWM 2493 CE ROHS * = Factory Code Note: Product may have c(UL) or CSA markings depending		
						upon plant of manufacture.	_l

# **Applicable Specifications**

VW-1	
CMG	75°C
FT4	
C(UL) TYPE CMG	75°C
EU Low Voltage Directive 2014/35/EU	
	CMG FT4 C(UL) TYPE CMG

## **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 detail.

## **Properties**

Physical & Mechanical Properties		
1) Temperature Range	-20 to 75°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	445 lbs. (max.)	
Electrical Properties	For Engineering purposes only	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Characteristic Impedance	60 ω	
3) Inductance	0.18 μH/ft, Nominal	
4) Mutual Capacitance	28 pF/ft @1 kHz, Nominal	
5) Ground Capacitance	50 pF/ft @1 kHz, Nominal	
6) Conductor DCR	16.6 ω/1000ft @20°C, Nominal	
7) Ind. Shield DC Resistance	14.4 ω/1000ft @20°C, Nominal	

## Other

36 x 14 x 12 Continuous Length	
24 x 14 x 12 Continuous Length	
18 x 9 x 8 Continuous Length	
Spool dimensions may vary slightly.	
-	24 x 14 x 12 Continuous Length 18 x 9 x 8 Continuous Length

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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## **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 6022C

6022C, RoHS-Compliant Commencing With 01/11/2004 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 diguide 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 context Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 01/04/2025

Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000