Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 6311

Construction

		Diameters (In)
1) Component 1	40 X 1 COND	
a) Conductor	24 (7/32) AWG TC	0.024
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid	0.044
(1) Color Code	Alpha Wire Color Code F	

Cond	Color	Cond	Color	Cond	Color
1	BLACK	15	BLUE/WHITE	29	WHITE/RED/GREEN
2	WHITE	16	BLACK/RED	30	RED/BLACK/GREEN
3	RED	17	WHITE/RED	31	GREEN/BLACK/ORANGE
4	GREEN	18	ORANGE/RED	32	ORANGE/BLACK/GREEN
5	ORANGE	19	BLUE/RED	33	BLUE/WHITE/ORANGE
6	BLUE	20	RED/GREEN	34	BLACK/WHITE/ORANGE
7	WHITE/BLACK	21	ORANGE/GREEN	35	WHITE/RED/ORANGE
8	RED/BLACK	22	BLACK/WHITE/RED	36	ORANGE/WHITE/BLUE
9	GREEN/BLACK	23	WHITE/BLACK/RED	37	WHITE/RED/BLUE
10	ORANGE/BLACK	24	RED/BLACK/WHITE	38	BLACK/WHITE/GREEN
11	BLUE/BLACK	25	GREEN/BLACK/WHITE	39	WHITE/BLACK/GREEN
12	BLACK/WHITE	26	ORANGE/BLACK/WHITE	40	RED/WHITE/GREEN
13	RED/WHITE	27	BLUE/BLACK/WHITE		
14	GREEN/WHITE	28	BLACK/RED/GREEN		

2) Cable Assembly	40 Components Cabled	
a) Twists:	2.5 Twists/foot (min)	
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction	Foil Facing Out	
b) Drain Wire	24 (7/32) AWG TC	
4) Jacket	0.040" Wall, Nom.,PVC	0.406 (0.429 Max.)
a) Color(s)	SLATE	
b) Print	ALPHA WIRE-* P/N 6311 40C 24 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2464 OR C(UL) 60C TYPE CMG FT4 ROHS * = Factory Code *[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*	

Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V_{RMS}
	CM	75°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	60°C
	FT4	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	144 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V_{RMS}
2) Capacitance	32 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	58 pf/ft @1 kHz, Nominal
4) Inductance	0.19 µH/ft, Nominal
5) Conductor DCR	26 /1000ft @20°C, Nominal
6) OA Shield DCR	13.4 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
	[Spool dimensions may vary slightly]

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6311

6311 , RoHS-Compliant Commencing With 8/1/2005 Production

This document certifies that the Alpha part number cited above are manufactured in accordance with Directive 2011/65/EC of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance China RoHS “Marking for Control of Pollution by Electronic Information Products” standard SJ/T 11364-2006.

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)

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 Company:

Dave Watson, Director of Engineering & QA 1/4/2013