



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

Customer Specification

PART NO. 6312

Construction

			Diameters (In)		
1) Component 1		50 X 1 COND			
a) Conductor		24 (7/32) AWG TC			
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.044	
(1) Color Code		Alpha Wire Company Color Code F			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	18	ORANGE/RED	35	WHITE/RED/ORANGE
2	WHITE	19	BLUE/RED	36	ORANGE/WHITE/BLUE
3	RED	20	RED/GREEN	37	WHITE/RED/BLUE
4	GREEN	21	ORANGE/GREEN	38	BLACK/WHITE/GREEN
5	ORANGE	22	BLACK/WHITE/RED	39	WHITE/BLACK/GREEN
6	BLUE	23	WHITE/BLACK/RED	40	RED/WHITE/GREEN
7	WHITE/BLACK	24	RED/BLACK/WHITE	41	GREEN/WHITE/BLUE
8	RED/BLACK	25	GREEN/BLACK/WHITE	42	ORANGE/RED/GREEN
9	GREEN/BLACK	26	ORANGE/BLACK/WHITE	43	BLUE/RED/GREEN
10	ORANGE/BLACK	27	BLUE/BLACK/WHITE	44	BLACK/WHITE/BLUE
11	BLUE/BLACK	28	BLACK/RED/GREEN	45	WHITE/BLACK/BLUE
12	BLACK/WHITE	29	WHITE/RED/GREEN	46	RED/WHITE/BLUE
13	RED/WHITE	30	RED/BLACK/GREEN	47	GREEN/ORANGE/RED
14	GREEN/WHITE	31	GREEN/BLACK/ORANGE	48	ORANGE/RED/BLUE
15	BLUE/WHITE	32	ORANGE/BLACK/GREEN	49	BLUE/RED/ORANGE
16	BLACK/RED	33	BLUE/WHITE/ORANGE	50	BLACK/ORANGE/RED
17	WHITE/RED	34	BLACK/WHITE/ORANGE		
2) Cable Assembly		50 Components Cabled			
a) Twists:		2.3 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		0.045" Wall, Nom.,PVC		0.453 (0.478 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 6312 50C 24 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- LLXXXXXX CSA 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	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	179 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 O/1000ft @ 20°C, Nominal
6) OA Shield DCR	13.4 O/1000ft @ 20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6312

6312 , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011