



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

Customer Specification

PART NO. 6309

Construction

			Diameters (In)				
1) Component 1	25 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	10	ORANGE/BLACK	19	BLUE/RED		
2	WHITE	11	BLUE/BLACK	20	RED/GREEN		
3	RED	12	BLACK/WHITE	21	ORANGE/GREEN		
4	GREEN	13	RED/WHITE	22	BLACK/WHITE/RED		
5	ORANGE	14	GREEN/WHITE	23	WHITE/BLACK/RED		
6	BLUE	15	BLUE/WHITE	24	RED/BLACK/WHITE		
7	WHITE/BLACK	16	BLACK/RED	25	GREEN/BLACK/WHITE		
8	RED/BLACK	17	WHITE/RED				
9	GREEN/BLACK	18	ORANGE/RED				
2) Cable Assembly	25 Components Cabled						
a) Twists:	3.0 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	0.032" Wall, Nom.,PVC			0.332 (0.351 Max.)			
a) Color(s)	SLATE						
b) Print	ALPHA WIRE-* P/N 6309 25C 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	91 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	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
<i>[Spool dimensions may vary slightly]</i>	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6309

6309 , 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/EU 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)

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Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

1/31/2013