



# Customer Specification PART NO. 6311

Construction

				Diameters (In	)	
1) Component 1		40 X 1 COND	40 X 1 COND			
a) Conductor		24 (7/32) AWG TC		0.024		
b) Insulation		0.010" Wall, N	om. PVC, Semi Rigid	0.044		
(1) Color Code		Alpha Wire Co	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	
	RED	17	WHITE/RED	31	GREEN/BLACK/ORA NGE	
4	GREEN	18	ORANGE/RED	32	ORANGE/BLACK/GR EEN	
3 4 5	ORANGE	19	BLUE/RED	33	BLUE/WHITE/ORANG E	
6	BLUE	20	RED/GREEN	34	BLACK/WHITE/ORAN GE	
7	WHITE/BLACK	21	ORANGE/GREEN	35	WHITE/RED/ORANGE	
8	RED/BLACK	22	BLACK/WHITE/RED	36	ORANGE/WHITE/BLU E	
9	GREEN/BLACK	23	WHITE/BLACK/RED	37	WHITE/RED/BLUE	
10	ORANGE/BLACK	24	RED/BLACK/WHITE	38	BLACK/WHITE/GREE N	
11	BLUE/BLACK	25	GREEN/BLACK/WHIT	39	WHITE/BLACK/GREE	
11 12 13 14	BLACK/WHITE	26	ORANGE/BLACK/WHI TE	40	RED/WHITE/GREEN	
13	RED/WHITE	27	BLUE/BLACK/WHITE			
14	GREEN/WHITE	28	BLACK/RED/GREEN			
2) Cable Assemb	ly	40 Component	ts 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 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>	
СМ	75°C	
VW-1		
C(UL) TYPE CMG	60°C	
FT4		
EU Low Voltage Directive 2006/95	EU Low Voltage Directive 2006/95/EC	
	CM VW-1 C(UL) TYPE CMG FT4	

### Environmental

1) CE: EU Directive 2011/65/EU(RoHS2	2):			
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.			
2) REACH Regulation (EC 1907/2006):				
	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. For up-to-date information, please see Alpha's REACH SVHC Declaration.			
3) 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 <sub>RMS</sub>			
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 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	13.4 Ω/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 is 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 this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. Additionally, Alpha certifies that the listed part number is in compliance with 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

4/26/2013