

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

Customer Specification PART NO. M4506

Construction

		-		Diameters (In))		
1) Component 1		37 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 Co	Alpha Wire Color Code E				
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	14	WHITE/ORANGE	27	WHITE/BLACK/SLAT		
2	BROWN	15	WHITE/YELLOW	28	WHITE/BROWN/REI		
3	RED	16	WHITE/GREEN	29	WHITE/BROWN/ORA NGE		
4	ORANGE	17	WHITE/BLUE	30	WHITE/BROWN/YEL OW		
5	YELLOW	18	WHITE/VIOLET	31	WHITE/BROWN/GRE		
6	GREEN	19	WHITE/SLATE	32	WHITE/BROWN/BLU		
7	BLUE	20	WHITE/BLACK/BROW N	33	WHITE/BROWN/VIO		
8	VIOLET	21	WHITE/BLACK/RED	34	WHITE/BROWN/SLA E		
9	SLATE	22	WHITE/BLACK/ORAN GE	35	WHITE/RED/ORANG		
10	WHITE	23	WHITE/BLACK/YELL OW	36	WHITE/RED/YELLOV		
11	WHITE/BLACK	24	WHITE/BLACK/GREE N	37	WHITE/RED/GREEN		
12	WHITE/BROWN	25	WHITE/BLACK/BLUE				
13	WHITE/RED	26	WHITE/BLACK/VIOLE T				
2) Cable Assem	ibly	37 Component	ts Cabled				
a) Twists:		3.4 Twists/foot (min)					
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.					
3) Jacket		0.063" Wall, Nom.,PVC		0.437 (0.461)	Max.)		
a) Color(s)		SLATE					
b) Ripcord		1 End 810 Denier Nylon					
c) Print		ALPHA WIRE-* P/N M4506 37C 24 AWG EXXXXX 75C CMG (UL) C(UL) OR AWM 2343 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]					

Applicable Specifications

1) UL	AWM/STYLE 2343	80°C / 300 V _{RMS}		
	CMG	75°C		
2) CSA International	C(UL) TYPE CMG	75°C		
	FT4			
3) CE:	EU Low Voltage Directive 2006/95	EU Low Voltage Directive 2006/95/EC		
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Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):				
	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	130 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	³⁰⁰ V _{RMS}			
2) Capacitance	21.8 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Inductance	0.19 µH/ft, Nominal			
4) Conductor DCR	26 Ω/1000ft @20°C, Nominal			

Other

Flange x Traverse x Barrel (inches)	
24 x 14 x 12 Continuous length	
18 x 12 x 8 Continuous length	
12 x 10 x 5 Continuous length	
[Spool dimensions may vary slightly]	
	24 x 14 x 12 Continuous length 18 x 12 x 8 Continuous length 12 x 10 x 5 Continuous length

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4506

M4506, RoHS-Compliant Commencing With 7/1/2005 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)

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

5/14/2013