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Customer Specification

PART NO. M3842

Construction

				Diameters (In)	
1) Component 1		37 X 1 COND			
a) Conductor		16 (7/.0192) AWG BC		0.058	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.100	
(1) Color Code		Alpha Wire Color Code J			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	14	ORANGE/RED	27	BLACK/YELLOW
2	RED	15	YELLOW/RED	28	RED/YELLOW
3	BLUE	16	BROWN/RED	29	BLUE/YELLOW
4	ORANGE	17	BLACK/BLUE	30	ORANGE/YELLOW
5	YELLOW	18	RED/BLUE	31	BROWN/YELLOW
6	BROWN	19	ORANGE/BLUE	32	BLACK/BROWN
7	RED/BLACK	20	YELLOW/BLUE	33	RED/BROWN
8	BLUE/BLACK	21	BROWN/BLUE	34	BLUE/BROWN
9	ORANGE/BLACK	22	BLACK/ORANGE	35	ORANGE/BROWN
10	YELLOW/BLACK	23	RED/ORANGE	36	YELLOW/BROWN
11	BROWN/BLACK	24	BLUE/ORANGE	37	BLACK
12	BLACK/RED	25	YELLOW/ORANGE		
13	BLUE/RED	26	BROWN/ORANGE		
2) Cable Assembly		37 Components Cabled			
a) Twists:		1.1 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.083" Wall, Nom.,PVC		0.869 (0.912 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M3842 37C 16 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN RES DIR BUR CE ROHS * = Factory Code			

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	
2) CE:	EU Low Voltage Directive 2006/95/EC	

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	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	751 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	30 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 µH/ft, Nominal
4) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	48 x 26 x 18 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	
	<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: M3842

M3842 , RoHS-Compliant Commencing With 1/1/2006 Production

Note: all colors and put-ups

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 (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** 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 11364-2014.

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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

5/3/2017

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