

Customer Specification

PART NO. M3840

Construction

				Diamet	ters (ln)
1) Component 1		24 X 1 COND			
a) Conductor		16 (7/.0192) AWG Bare Copper		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	9	ORANGE/BLACK	17	BLACK/BLUE
2	RED	10	YELLOW/BLACK	18	RED/BLUE
3	BLUE	11	BROWN/BLACK	19	ORANGE/BLUE
4	ORANGE	12	BLACK/RED	20	YELLOW/BLUE
5	YELLOW	13	BLUE/RED	21	BROWN/BLUE
6	BROWN	14	ORANGE/RED	22	BLACK/ORANGE
7	RED/BLACK	15	YELLOW/RED	23	RED/ORANGE
8	BLUE/BLACK	16	BROWN/RED	24	BLUE/ORANGE
2) Cable Assembly		24 Components Cabled			
a) Twists:		1.4 Twists/foot (min)			
b) Orientation:		Components to be arranged from OUTSIDE LAYER to INSIDE LAYER			
c) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.063" Wall, Nom.,PVC		0.717 (0	0.754 Max.)
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M3840 24C 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 Dry / 75°C Wet / 600	V _{RMS}	
	SUN RES		
	DIRECT BURIAL		
2) CE:	EU Low Voltage Directive 2014/35/EU	EU Low Voltage Directive 2014/35/EU	

Environmental

5/EU (RoHS Directive) of the European Parliament irective 2015/863/EU of 4 June 2015. No Exemptions
Concern (SVHC) listed on the European Union's n.
te of California to cause Cancer or Reproductive nt Judgement. See the Alpha Wire website for more

Properties

Physical & Mechanical Properties				
1) Temperature Range	-25 to 90°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	487 Lbs, Maximum			
4) Sunlight Resistance	Yes			
5) Direct Burial	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	27 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	36 x 14 x 12 Continuous length	
b) 500 FT	30 x 14 x 12 Continuous length	
c) 100 FT	18 x 9 x 8 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M3840

M3840, RoHS-Compliant Commencing With 1/1/2006 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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 4/30/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-908-925-8000