

Customer Specification

PART NO. M38940

Construction

						Diameters (In)	
1) Con	nponent 1					40 X 1 COND	
a) Con						24 (7/32) AWG Tinned Copper	0.024
b) Insu						0.010" Wall, Nom. PVC, Semi Rigid	0.044
(1) Col	or Code					Alpha Wire Color Code E	
Cond	Color	Cond	Color	Cond	Color		•
1	BLACK	15	WHITE/YEI		WHITE/BR(
2	BROWN	16	WHITE/GR		WHITE/BRO		
3	RED	17	WHITE/BLI	31	WHITE/BRO		
4	ORANGE	18	WHITE/VIC	32	WHITE/BR(
5	YELLOW	19	WHITE/SL/	33	WHITE/BR(
6	GREEN	20	WHITE/BL/	34	WHITE/BR(
7	BLUE	21	WHITE/BL/	35	WHITE/REC		
8	VIOLET	22	WHITE/BL/	36	WHITE/REC		
9	SLATE	23	WHITE/BL/	37	WHITE/RED		
10	WHITE	24	WHITE/BL	38	WHITE/RED		
11	WHITE/BL	25	WHITE/BL	39	WHITE/RED		
12	WHITE/BR	26	WHITE/BL/	40	WHITE/RED		
13	WHITE/RE	27	WHITE/BL/				
14	WHITE/OR	28	WHITE/BR				
2) Cable Assembly					40 Components Cabled		
a) Twis	ts:					2.5 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core	e Wrap					Clear Mylar Tape, 25% Overlap, Min.	
3) Jacket						0.032" Wall, Nom.,PVC	0.389 (0.412 Max.)
a) Color(s)						SLATE	
b) Prin	t					ALPHA WIRE-* P/N M38940 40C 24 AWG EXXXXXXX 75C CMG(UL) C(UL) OR AWM STYLE 2464 CE 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}
	CMG	75°C
2) CSA International	C(UL) TYPE CMG	75°C
	FT4	
3) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

Properties

Physical & Mechanical Properties			
1) Temperature Range	-20 to 80°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	141 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	21.2 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

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 14.25 x 8 Continuous length	
b) 500 FT	18 x 9 x 8 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M38940

M38940, RoHS-Compliant Commencing With 01/07/2005 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the diguide 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 context Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 15/09/2025

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