

Customer Specification

PART NO. M5377

Construction

						Diameter ("in")	
1) Component 1						50 x 1 COND	
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
b) Insulation						0.016" Wall, Nom. PVC	0.070
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	18	WHITE/GR	35	WHITE/RE		
2	RED	19	WHITE/YE	36	WHITE/RE		
3	WHITE	20	WHITE/BL	37	WHITE/RE		
4	GREEN	21	WHITE/BR	38	WHITE/RE		
5	ORANGE	22	WHITE/OR	39	WHITE/RE		
6	BLUE	23	WHITE/SL	40	WHITE/GRI		
7	BROWN	24	WHITE/VIC	41	WHITE/GRI		
8	YELLOW	25	WHITE/BL	42	WHITE/GRI		
9	VIOLET	26	WHITE/BL	43	WHITE/GRI		
10	SLATE	27	WHITE/BL	44	WHITE/GRI		
11	PINK	28	WHITE/BL	45	WHITE/GRI		
12	TAN	29	WHITE/BL	46	WHITE/BLL		
13	RED/GREE	30	WHITE/BL	47	WHITE/BLL		
14	RED/YELL	31	WHITE/BL	48	WHITE/BLL		
15	RED/BLAC	32	WHITE/BL	49	WHITE/BLL		
16	WHITE/BL	33	WHITE/BL	50	WHITE/BLL		
17	WHITE/RE	34	WHITE/RE				
2) Cable Assembly						50 Components Cabled	
a) Twists						1.4 twists/ft. (min.)	
b) Orientation						Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 20% Overlap (min.)	
3) Shield						Alum/Mylar Tape, 20% Overlap (min.)	
a) Foil Direction						Foil Facing Out	
b) Drain Wire						20 (7/28) AWG Tinned Copper	
c) Braid						Tinned Copper, 70% Coverage, Nom.	
4) Jacket						0.053" Wall, Nom., PVC	0.713 (0.742 max.)
a) Color(s)						SLATE	
b) Ripcord						1 End 810 Denier Nylon	
c) Print						ALPHA WIRE-* P/N M5377 50C 20 AWG EXXXXXX SHIELDED 75C CMG (UL) C(UL) OR AWM 2464 CE ROHS * = Factory Code <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>	

Applicable Specifications

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1) UL	AWM/STYLE 2464	80°C / 300 V _{RMS}
	CMG	75°C
2) CSA International	FT4	
	C(UL) TYPE CMG	75°C
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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	460 lbs. max.
Electrical Properties	
<i>Engineering purposes only</i>	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	45 pF/ft. @1 kHz, Nominal Conductor-to-Conductor
3) Ground Capacitance	81 pF/ft. @1 kHz, Nominal
4) Inductance	0.19 μH/ft., Nominal
5) Conductor DCR	10.3 ω/1000ft. @20°C, Nominal
6) OA Shield DCR	1.28 ω/1000ft. @20°C, Nominal

Other

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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 (<i>Made-to-order</i>)	
	<i>Spool dimensions may vary slightly.</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M5377

M5377, RoHS-Compliant Commencing With 11/1/2004 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

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 3/31/2025

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