



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

# Customer Specification

## PART NO. M5377

Construction

				Diameters (In)			
1) Component 1		50 X 1 COND					
a) Conductor		20 (7/28) AWG TC					
b) Insulation		0.016" Wall, Nom. PVC					
(1) Color Code		Alpha Wire Color Code D					
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	18	WHITE/GREEN	35	WHITE/RED/RED		
2	RED	19	WHITE/YELLOW	36	WHITE/RED/GREEN		
3	WHITE	20	WHITE/BLUE	37	WHITE/RED/BLUE		
4	GREEN	21	WHITE/BROWN	38	WHITE/RED/BROWN		
5	ORANGE	22	WHITE/ORANGE	39	WHITE/RED/VIOLET		
6	BLUE	23	WHITE/SLATE	40	WHITE/GREEN/BLACK		
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/RED		
8	YELLOW	25	WHITE/BLACK/RED	42	WHITE/GREEN/GREEN		
9	VIOLET	26	WHITE/BLACK/GREEN	43	WHITE/GREEN/BLUE		
10	SLATE	27	WHITE/BLACK/YELLOW	44	WHITE/GREEN/BROWN		
11	PINK	28	WHITE/BLACK/BLUE	45	WHITE/GREEN/VIOLET		
12	TAN	29	WHITE/BLACK/BROWN	46	WHITE/BLUE/BLACK		
13	RED/GREEN	30	WHITE/BLACK/ORANGE	47	WHITE/BLUE/RED		
14	RED/YELLOW	31	WHITE/BLACK/SLATE	48	WHITE/BLUE/GREEN		
15	RED/BLACK	32	WHITE/BLACK/VIOLET	49	WHITE/BLUE/BLUE		
16	WHITE/BLACK	33	WHITE/BLACK/BLACK	50	WHITE/BLUE/BROWN		
17	WHITE/RED	34	WHITE/RED/BLACK				
2) Cable Assembly		50 Components Cabled					
a) Twists:		1.4 Twists/foot (min)					
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.					
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction		Foil Facing Out					
b) Drain Wire		20 (7/28) AWG TC					
c) Braid		TC,70% Coverage, Min.					

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

1) UL	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	CMG	75°C
2) CSA International	FT4	
	C(UL) TYPE CMG	75°C
3) 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	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	460 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	44 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	79 pf/ft @1 kHz, Nominal
4) Inductance	0.19 $\mu$ H/ft, Nominal
5) Conductor DCR	10.3 $\Omega$ /1000ft @20°C, Nominal
6) OA Shield DCR	1.3 $\Omega$ /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	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	16 x 11 x 8 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: M5377

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

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:

A handwritten signature in black ink, appearing to read "Dave Watson".

Dave Watson, Director of Engineering & QA

5/14/2013