



# **Customer Specification**

**PART NO. M5352** 

Constru	ction			

						Diameters (In)
1) Component 1		50 X 1 COND				
a) Conductor		22 (7/30	0) AWG Tinned Copper	C	0.030	
b) Insulation		0.010" \	Wall, Nom. PVC, Semi Rigid	C	0.050	
(1) Color C	ode		Alpha V	Vire Color Code E		
Cond	Color	Cond		Color	Cond	d Color
1	BLACK	18		WHITE/VIOLET	35	WHITE/RED/ORANGE
2	BROWN	19		WHITE/SLATE	36	WHITE/RED/YELLOW
3	RED	20		WHITE/BLACK/BROWN	37	WHITE/RED/GREEN
4	ORANGE	21		WHITE/BLACK/RED	38	WHITE/RED/BLUE
5	YELLOW	22		WHITE/BLACK/ORANGE	39	WHITE/RED/VIOLET
6	GREEN	23		WHITE/BLACK/YELLOW	40	WHITE/RED/SLATE
7	BLUE	24		WHITE/BLACK/GREEN	41	WHITE/ORANGE/YELLOW
8	VIOLET	25		WHITE/BLACK/BLUE	42	WHITE/ORANGE/GREEN
9	SLATE	26		WHITE/BLACK/VIOLET	43	WHITE/ORANGE/BLUE
10	WHITE	27		WHITE/BLACK/SLATE	44	WHITE/ORANGE/VIOLET
11	WHITE/BLACK	28		WHITE/BROWN/RED	45	WHITE/ORANGE/SLATE
12	WHITE/BROWN	29		WHITE/BROWN/ORANGE	46	WHITE/YELLOW/GREEN
13	WHITE/RED	30		WHITE/BROWN/YELLOW	47	WHITE/YELLOW/BLUE
14	WHITE/ORANGE	31		WHITE/BROWN/GREEN	48	WHITE/YELLOW/VIOLET
15	WHITE/YELLOW	32		WHITE/BROWN/BLUE	49	WHITE/YELLOW/SLATE
16	WHITE/GREEN	33		WHITE/BROWN/VIOLET	50	WHITE/GREEN/BLUE
17	WHITE/BLUE	34		WHITE/BROWN/SLATE		
2) Cable A	ssembly		50 Com	ponents Cabled		
a) Twists:		2.0 Twists/foot (min)				
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wi	ар		Clear Mylar Tape, 20% Overlap, Min.			
3) Shield:		Alum/Mylar Tape, 20% Overlap, Min.				
a) Foil Direction		Foil Facing Out				
b) Drain Wire		22 (7/30) AWG Tinned Copper				
c) Braid		Tinned Copper,70% Coverage, Nom.				
		0.032" Wall, Nom.,PVC		C	).501 (0.526 Max.)	
a) Color(s)		SLATE				
b) Ripcord 1		1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N M5352 50C 22 AWG  EXXXXXX SHIELDED 75C CMG (UL) C(UL) OR  AWM 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 <sub>RMS</sub>	
	CMG	75°C	
2) CSA International	FT4		
	C(UL) TYPE CMG	75°C	
3) CE:	EU Low Voltage Directive 2014,	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	289 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Capacitance	35 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	63 pF/ft @1 kHz, Nominal		
4) Inductance	0.18 μH/ft, Nominal		
5) Conductor DCR	16.5 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	) OA Shield DCR 1.84 Ω/1000ft @20°C, Nominal		

#### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	24 x 14 x 12 Continuous length	
b) 500 FT	18 x 14.25 x 8 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

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#### **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M5352

M5352, RoHS-Compliant Commencing With 7/1/2005 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 5/3/2024

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