

Customer Specification PART NO. M4652

Construction

				Diameters (I	n)	
1) Componen	t 1	50 X 1 CON	ID			
a) Conductor		22 (7/30) A\	22 (7/30) AWG Tinned Copper		0.030	
b) Insulation		0.010" Wall,	0.010" Wall, Nom. PVC, Semi Rigid		0.050	
(1) Color Coo	de	Alpha Wire	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	18	WHITE/VIOLET	35	WHITE/RED/ORA NGE	
2	BROWN	19	WHITE/SLATE	36	WHITE/RED/YEL LOW	
3	RED	20	WHITE/BLACK/B ROWN	37	WHITE/RED/GRE EN	
4	ORANGE	21	WHITE/BLACK/R ED	38	WHITE/RED/BLU E	
5	YELLOW	22	WHITE/BLACK/O RANGE	39	WHITE/RED/VIOL ET	
6	GREEN	23	WHITE/BLACK/Y ELLOW	40	WHITE/RED/SLA TE	
7	BLUE	24	WHITE/BLACK/G REEN	41	WHITE/ORANGE/ YELLOW	
8	VIOLET	25	WHITE/BLACK/B LUE	42	WHITE/ORANGE/ GREEN	
9	SLATE	26		43		

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			WHITE/BLACK/VI OLET		WHITE/ORANGE/ BLUE
10	WHITE	27	WHITE/BLACK/S LATE	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/B
17	WHITE/BLUE	34	WHITE/BROWN/ SLATE		
2) Cable Assembly		50 Components C	abled		
a) Twists:		2.0 Twists/foot (mi			
b) Orientation:		Components to be INSIDE LAYER to	arranged from		
c) Core Wrap		Clear Mylar Tape, 20% Overlap, Min.			
3) Shield:		Alum/Mylar Tape, 20% Overlap, Min.			
a) Foil Direction		Foil Facing In			
b) Drain Wire		22 (7/30) AWG Tinned Copper			
4) Jacket		0.032" Wall, Nom.,PVC		0.479 (0.504 Max.)
a) Color(s)		SLATE		Γ	
b) Ripcord 1 End 810 Denier Nylon		Nylon			
c) Print		ALPHA WIRE-* P/N M4652 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			

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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			
-20 to 80°C			
10X Cable Diameter			
280 Lbs, Maximum			
(For Engineering purposes only)			
300 V _{RMS}			
35 pF/ft @1 kHz, Nominal Conductor to Conductor			
63 pF/ft @1 kHz, Nominal			
0.18 μH/ft, Nominal			

5) Conductor DCR	16.5 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	9.2 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]

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4652

M4652, RoHS-Compliant Commencing With 11/1/2004 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 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)

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:

Dave Watson, Director of Engineering

12/28/2023

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