



Customer Specification

PART NO. M4677

C	Construction				

						Diameters (In)	
1) Component 1						50 X 1 COND	
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
<u> </u>					0.016" Wall, Nom. PVC	0.070	
(1) Colo	or Code					Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		-
1	BLACK	18	WHITE/GR	35	WHITE/REC		
2	RED	19	WHITE/YEI	36	WHITE/REC		
3	WHITE	20	WHITE/BLI	37	WHITE/REC		
4	GREEN	21	WHITE/BR	38	WHITE/REC		
5	ORANGE	22	WHITE/OR	39	WHITE/RED		
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) Cabl	e Assembly					50 Components Cabled	
a) Twists:					1.4 Twists/foot (min)		
b) Orientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
c) Core	Wrap					Clear Mylar Tape, 20% Overlap, Min.	
3) Shie	ld:					Alum/Mylar Tape, 20% Overlap, Min.	
a) Foil Direction					Foil Facing In		
b) Drain Wire					20 (7/28) AWG Tinned Copper		
4) Jacket					0.053" Wall, Nom.,PVC	0.685 (0.714 Max.)	
a) Color(s)					SLATE		
b) Ripcord					1 End 810 Denier Nylon		
c) Print					ALPHA WIRE-* P/N M4677 50C 20 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 _{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. See the Alpha Wire website for more information.

Properties

Physical & Mechanical Properties		
-20 to 80°C		
10X Cable Diameter		
446 Lbs, Maximum		
(For Engineering purposes only)		
300 V _{RMS}		
45 pF/ft @1 kHz, Nominal Conductor to Conductor		
81 pF/ft @1 kHz, Nominal		
0.19 μH/ft, Nominal		
10.3 Ω/1000ft @20°C, Nominal		
6.4 Ω/1000ft @20°C, Nominal		
· · · · · · ·	10X Cable Diameter 446 Lbs, Maximum (For Engineering purposes only) 300 V _{RMS} 45 pF/ft @1 kHz, Nominal Conductor to Conductor 81 pF/ft @1 kHz, Nominal 0.19 μH/ft, Nominal 10.3 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	36 x 14 x 12 Continuous length	
b) 500 FT	24 x 14 x 12 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

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4677

M4677, RoHS-Compliant Commencing With 11/1/2003 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 3/31/2025

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000