

Customer Specification PART NO. M4648

Construction

				Diameters (In)	
1) Component 1		30 X 1 COND			
a) Conductor		22 (7/30) AWG TO)	0.030	
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.050	
(1) Color Code		Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	11	WHITE/BLACK	21	WHITE/BLACK/R ED
2	BROWN	12	WHITE/BROWN	22	WHITE/BLACK/O RANGE
3	RED	13	WHITE/RED	23	WHITE/BLACK/Y ELLOW
4	ORANGE	14	WHITE/ORANGE	24	WHITE/BLACK/G REEN
5	YELLOW	15	WHITE/YELLOW	25	WHITE/BLACK/B LUE
6	GREEN	16	WHITE/GREEN	26	WHITE/BLACK/VI OLET
7	BLUE	17	WHITE/BLUE	27	WHITE/BLACK/S LATE
8	VIOLET	18	WHITE/VIOLET	28	WHITE/BROWN/ RED
9	SLATE	19	WHITE/SLATE	29	

					WHITE/BROWN/ ORANGE
10	WHITE	20	WHITE/BLACK/B ROWN	30	WHITE/BROWN/ YELLOW
2) Cable Assembly		30 Components Cabled			
a) Twists:		2.5 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 In			
b) Drain Wire		22 (7/30) AWG TC			
4) Jacket		0.032" Wall, Nom.,PVC		0.392 (0.413 Max.)	
a) Color(s)	a) Color(s) SLATE				
b) Ripcord	Ripcord 1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N M4648 30C 22 AV EXXXXXX SHIELDED 75C CMG (UL) CAWM 2464 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA manufacture.]		C(UL) OR	ing upon plant of

Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМС	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	170 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	36 pf/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	65 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	10.4 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4648

M4648, RoHS-Compliant Commencing With 7/1/2005 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) 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.

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 & QA

9/9/2020

Alpha Wire

711 Lidgerwood Ave. Elizabeth, NJ 07207

Tel: 1-908-925-8000

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