



Request a Sample

Customer Specification PART NO. M4648

Construction

				Diameters (In)		
1) Component 1		30 X 1 COND	30 X 1 COND			
a) Conductor		22 (7/30) AWG	22 (7/30) AWG TC			
b) Insulation		0.010" Wall, No	0.010" Wall, Nom. PVC, Semi Rigid		0.050	
(1) Color Code		Alpha Wire Cold	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	11	WHITE/BLACK	21	WHITE/BLACK/RED	
2	BROWN	12	WHITE/BROWN	22	WHITE/BLACK/ORAN GE	
3	RED	13	WHITE/RED	23	WHITE/BLACK/YELL OW	
4	ORANGE	14	WHITE/ORANGE	24	WHITE/BLACK/GREE	
5	YELLOW	15	WHITE/YELLOW	25	WHITE/BLACK/BLUE	
6	GREEN	16	WHITE/GREEN	26	WHITE/BLACK/VIOLE T	
7	BLUE	17	WHITE/BLUE	27	WHITE/BLACK/SLATE	
8	VIOLET	18	WHITE/VIOLET	28	WHITE/BROWN/RED	
9	SLATE	19	WHITE/SLATE	29	WHITE/BROWN/ORA NGE	
10	WHITE	20	WHITE/BLACK/BROW	30	WHITE/BROWN/YELL OW	
2) Cable Assemb	2) Cable Assembly		30 Components Cabled			
a) Twists:		2.5 Twists/foot (2.5 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tap	Clear Mylar Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tap	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		22 (7/30) AWG	22 (7/30) AWG TC			
4) Jacket		0.032" Wall, No	0.032" Wall, Nom.,PVC		ax.)	
a) Color(s)		SLATE	SLATE			
b) Ripcord		1 End 810 Deni	1 End 810 Denier Nylon			
c) Print		EXXXXXX SHIE AWM 2464 CE F * = Factory Code	ALPHA WIRE-* P/N M4648 30C 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 _{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), 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. 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:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.			

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

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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)

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 & QA

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