

Request a Sample

# Customer Specification PART NO. M4640

#### Construction

Construction				Diameters (In)		
				Diameters (In)		
1) Component 1		10 X 1 COND	10 X 1 COND			
a) Conductor		22 (7/30) AWG	22 (7/30) AWG TC		0.030	
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	5	YELLOW	9	SLATE	
2	BROWN	6	GREEN	10	WHITE	
3	RED	7	BLUE			
4	ORANGE	8	VIOLET			
2) Cable Assembly		10 Components	10 Components Cabled			
a) Twists:		4.0 Twists/foot (	4.0 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		0.271 (0.286 Max.)	
a) Color(s)		Slate, Black	Slate, Black			
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 M4640 10C 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>		
	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** 

100011100				
Physical & Mechanical Properties				
1) Temperature Range	-20 to 80°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	60 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
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	16.4 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	11.8 Ω/1000ft @20°C, Nominal			

# Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 500 FT	12 x 6 x 3.5 Continuous length
c) 100 FT	12 x 4.5 x 3.5 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: M4640

M4640, 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.

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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

Alpha Wire

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