

# Customer Specification PART NO. M5312

## Construction

				Diameters (In)		
1) Component 1		20 X 1 COND	20 X 1 COND			
a) Conductor		24 (7/32) AWG	24 (7/32) AWG TC		0.024	
b) Insulation		0.010" Wall, N	0.010" Wall, Nom. PVC, Semi Rigid		0.044	
(1) Color Code		Alpha Wire Co	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	8	VIOLET	15	WHITE/YELLOW	
2	BROWN	9	SLATE	16	WHITE/GREEN	
3	RED	10	WHITE	17	WHITE/BLUE	
4	ORANGE	11	WHITE/BLACK	18	WHITE/VIOLET	
5	YELLOW	12	WHITE/BROWN	19	WHITE/SLATE	
6	GREEN	13	WHITE/RED	20	WHITE/BLACK/BROW N	
7	BLUE	14	WHITE/ORANGE			
2) Cable Assembly		20 Component	20 Components Cabled			
a) Twists:		3.7 Twists/foot	3.7 Twists/foot (min)			
b) Core Wrap		Clear Mylar Ta	Clear Mylar Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Ta	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Ou	Foil Facing Out			
b) Drain Wire		24 (7/32) AWG	24 (7/32) AWG TC			
c) Braid		TC,70% Cover	TC,70% Coverage, Min.			
4) Jacket		0.032" Wall, N	0.032" Wall, Nom.,PVC		0.323 (0.341 Max.)	
a) Color(s)		SLATE	SLATE			
b) Ripcord		1 End 810 Der	1 End 810 Denier Nylon			
c) Print		EXXXXXX SHI AWM 2464 CE * = Factory Coo	ALPHA WIRE-* P/N M5312 20C 24 AWG EXXXXX 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

AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>	
СМБ	75°C	
FT4		
C(UL) TYPE CMG	75°C	
EU Low Voltage Directive 2006/95/EC		
	CMG FT4 C(UL) TYPE CMG	

#### 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 requirement California Proposition 65.				

### **Properties**

Physical & Mechanical Properties			
-20 to 80°C			
or to Conductor			

#### Other

Flange x Traverse x Barrel (inches)	
18 x 12 x 8 Continuous length	
12 x 12 x 3.5 Continuous length	
12 x 4.5 x 3.5 Continuous length	
[Spool dimensions may vary slightly]	
	18 x 12 x 8 Continuous length 12 x 12 x 3.5 Continuous length 12 x 4.5 x 3.5 Continuous length

www.alphawire.com

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# **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M5312

M5312, RoHS-Compliant Commencing With 7/1/2005 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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)

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 Company:

Dave Watson, Director of Engineering & QA

5/14/2013