

## **Customer Specification**

### **PART NO. M13200**

#### Construction

		_		Diamete	Diameters (In)					
1) Compon	ent 1	15 X 1 PAIR								
a) Conducto	or	24 (7/32) AWG Tinned Copper			0.024					
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid			0.044					
(1) Color Co	de	Alpha Wire Color Co	de K							
Pair	Color	Pair	Color	Pair	Color					
1	BLACK-RED	6	BLACK-BROWN	11	RED-YELLOW					
2	BLACK-WHITE	7	BLACK-ORANGE	12	RED-BROWN					
3	BLACK-GREEN	8	RED-WHITE	13	RED-ORANGE					
4	BLACK-BLUE	9	RED-GREEN	14	GREEN-WHITE					
5	BLACK-YELLOW	10	RED-BLUE	15	GREEN-BLUE					
c) Pair		2/Cond Cabled Together								
(1) Twists:		9.6 Twists/foot (min)								
2) Cable Assembly		15 Components Cabled								
a) Twists:		2.5 Twists/foot (min)								
b) Orientation:		Components to be an OUTSIDE LAYER	rranged from INSIDE LAYER to							
c) Core Wrap		Clear Mylar Tape, 209	% Overlap, Min.							
3) Shield:		Alum/Mylar Tape, 20	% Overlap, Min.							
a) Foil Direc	tion	Foil Facing In								
b) Drain Wi	re	24 (7/32) AWG Tinne	d Copper							
4) Jacket		0.032" Wall, Nom.,PV	'C	0.402 (0.	0.402 (0.425 Max.)					
a) Color(s)		SLATE								
b) Ripcord		1 End 810 Denier Nylon								
c) Print		ALPHA WIRE-* P/N M13200 15PR 24 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	CMG	75°C	75°C				
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>					
2) CSA International	C(UL) TYPE CMG	75°C					
	FT4						
3) CE:	EU Low Voltage Directive 2014/	EU Low Voltage Directive 2014/35/EU					

## Environmental

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.
)7/2006):
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.
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.
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### **Properties**

Physical & Mechanical Properties						
1) Temperature Range	-20 to 80°C					
2) Bend Radius	10X Cable Diameter					
3) Pull Tension	109 Lbs, Maximum					
Electrical Properties	(For Engineering purposes only)					
1) Voltage Rating	300 V <sub>RMS</sub>					
2) Mutual Capacitance	22.5 pF/ft @1 kHz, Nominal					
3) Ground Capacitance	40 pF/ft @1 kHz, Nominal					
4) Characteristic Impedance	83 Ω					
5) Inductance	0.19 μH/ft, Nominal					
6) Conductor DCR	26 Ω/1000ft @20°C, Nominal					
7) OA Shield DCR	13.4 Ω/1000ft @20°C, Nominal					

#### Other

Flange x Traverse x Barrel (inches)													
20 x 11 x 8 Continuous length													
18 x 9 x 8 Continuous length													
12 x 5.94 x 5 Continuous length													
[Spool dimensions may vary slightly]													
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#### www.alphawire.com

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

To Whom It May Concern:

Alpha Wire Part Number: M13200

M13200, RoHS-Compliant Commencing With 7/1/2005 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 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)						

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 5/4/2024

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