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## **Customer Specification**

## **PART NO. M5653**

#### Construction

		_			Dian	neters (In)	
1) Component 1		15 X 1 PAIR					
a) Conductor		24 (7/32) AWG Tinned Copper				0.024	
b) Insulation		0.010" Wa	all, Nom. PV	C, Semi Rigid	0.044	0.044	
(1) Color Code		Alpha Wire Color Code B					
Pair	Color		Pair	Color	Pair	Color	
1	WHITE-BLACK		6	WHITE-GREEN	11	BLACK-RED	
2	WHITE-BROWN		7	WHITE-BLUE	12	BLACK-ORANGE	
3	WHITE-RED		8	WHITE-VIOLET	13	BLACK-YELLOW	
4	WHITE-ORANGE		9	WHITE-SLATE	14	BLACK-GREEN	
5	WHITE-YELLOW		10	BLACK-BROWN	15	BLACK-BLUE	
c) Pair		2/Cond C	abled Toget	her			
(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 arranged from INSIDE LAYER to OUTSIDE LAYER					
c) Core Wrap		Clear Mylar Tape, 20% Overlap, Min.					
3) Shield:		Alum/Mylar Tape, 20% Overlap, Min.					
a) Foil Direction		Foil Facing Out					
b) Drain Wire		24 (7/32) AWG Tinned Copper					
c) Braid		Tinned Copper,70% Coverage, Nom.					
4) Jacket		0.063" Wall, Nom.,PVC				5 (0.512 Max.)	
a) Color(s)		SLATE					
b) Ripcord		1 End 810 Denier Nylon					
c) Print		ALPHA WIRE-* P/N M5653 15PR 24 AWG EXXXXXX SHIELDED 75C CMG (UL) C(UL) OR AWM 2343 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]					

### **Applicable Specifications**

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E 1061 80°C / 300 V <sub>RMS</sub> 75°C E 2343 80°C / 300 V <sub>RMS</sub>		
E 2343 80°C / 300 Vous		
CMG 75°C		
EU Low Voltage Directive 2014/35/EU		

## Environmental

1) CE: EU Directive 2011/65/E	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.
2) REACH Regulation (EC 190	17/2006):
	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.
3) California Proposition 65:	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.

## Properties

-20 to 80°C	
10X Cable Diameter	
116 Lbs, Maximum	
(For Engineering purposes only)	
300 V <sub>RMS</sub>	
22.5 pF/ft @1 kHz, Nominal	
40 pF/ft @1 kHz, Nominal	
83 Ω	
0.19 μH/ft, Nominal	
26 Ω/1000ft @20°C, Nominal	
2.7 Ω/1000ft @20°C, Nominal	
-	10X Cable Diameter   116 Lbs, Maximum   (For Engineering purposes only)   300 V <sub>RMS</sub> 22.5 pF/ft @1 kHz, Nominal   40 pF/ft @1 kHz, Nominal   83 Ω   0.19 µH/ft, Nominal   26 Ω/1000ft @20°C, Nominal

### Other

Flange x Traverse x Barrel (inches)	
24 x 14 x 12 Continuous length	
18 x 14.25 x 8 Continuous length	
18 x 9 x 8 Continuous length	
[Spool dimensions may vary slightly]	
	24 x 14 x 12 Continuous length   18 x 14.25 x 8 Continuous length   18 x 9 x 8 Continuous length

#### www.alphawire.com

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

To Whom It May Concern:

Alpha Wire Part Number: M5653

M5653, 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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