

# **Customer Specification**

#### **PART NO. M2407**

#### **Construction**

						Diameters	(In)
1) Component 1 7 X		COND					
a) Conductor 28		28 (7/36) AWG Tinned Copper			0.015		
b) Insulation 0.010" Wall, I		" Wall, Nom. F	m. PVC, Semi Rigid			0.035	
(1) Color Code Alpha Wire Color			ode D				
Cond	Color		Cond	Color	Co	ond	Color
1	BLACK		4	GREEN	7		BROWN
2	RED		5	ORANGE			
3	WHITE		6	BLUE			
2) Cable Assembly 7 Components Cabled							
a) Twists: 8.0 Twists/foot (min)							
b) Orientation:	Com	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER					
3) Shield:	Shield: Alum/Mylar Tape, 25% Overlap, Min.						
a) Foil Direction Foil Facing Out							
b) Drain Wire 28 (7/36) AWG Tinned Copper							
c) Braid Tinned Copper,65% Coverage, Nom.							
4) Jacket 0.032" Wall, Nom.,PVC 0.196 (0.2			0.196 (0.20	8 Max.)			
a) Color(s)	SLAT	SLATE					
b) Ripcord	1 End	1 End 810 Denier Nylon					
c) Print	EXXX AWN * = F	ALPHA WIRE-* P/N M2407 7C 28 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>	
	CMG	75°C	
2) CSA International	FT4		
	C(UL) TYPE CMG	75°C	
3) CE:	EU Low Voltage Directive 2014/	EU Low Voltage Directive 2014/35/EU	

#### **Environmental**

1) CE: ELL Directive 2011/65/6	EU(RoHS2), EU Directive 2015/863/EU (RoHS3):			
T) CL. LO Directive 2011/03/L	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 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.			
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**

Physical & Mechanical Properties				
1) Temperature Range	-20 to 80°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	13 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
2) Capacitance	24.6 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	44 pF/ft @1 kHz, Nominal			
4) Inductance	0.22 μH/ft, Nominal			
5) Conductor DCR	66 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	nield DCR 9 Ω/1000ft @20°C, Nominal			

Other			

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	12 x 10.5 x 5 Continuous length	
b) 500 FT	10.5 x 5 x 3.5 Continuous length	
c) 100 FT	6.5 x 4 x 2.5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
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## **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M2407

M2407, 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 "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/2/2024

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