

Customer Specification

PART NO. M2459

Construction

						Diameters (In)	
1) Component 1						6 X 1 COND	
a) Conductor						24 (7/32) AWG Tinned Copper	0.024
b) Insulation						0.016" Wall, Nom. Polypropylene, Foam	0.056
(1) Color Code						Alpha Wire Color Code O	
Cond	Color	Cond	Color	Cond	Color	1	
1	BLACK	3	RED	5	BROWN	1	
2	WHITE	4	GREEN	6	BLUE	1	
2) Cable	e Assembly	,	·		·	6 Components Cabled	
a) Twist	s:					4.8 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing Out	
b) Drain Wire						24 (7/32) AWG Tinned Copper	
c) Braid						Tinned Copper,65% Coverage, Min.	
4) Jacket						0.035" Wall, Nom.,PVC	0.265 (0.278 Max.
a) Color(s)						SLATE	
b) Ripcord						1 End 810 Denier Nylon	
c) Print						ALPHA WIRE-* P/N M2459 6C 24 AWG EXXXXXX 75C CM (UL) C(UL) OR AWM 2919 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

Applicable Specifications

AWM/STYLE 2919	80°C / 30 V _{RMS}	
CM	75°C	
VW-1		
C(UL) TYPE CM	75°C	
EU Low Voltage Directive 2014/35/EU		
-	CM VW-1 C(UL) TYPE CM	

Environmental

1) CE: EU Directive 2011/65/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 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	28 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Capacitance	11.9 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	21.4 pF/ft @1 kHz, Nominal			
4) Inductance	0.22 μH/ft, Nominal			
5) Conductor DCR	26 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	4.7 Ω/1000ft @20°C, Nominal			

Other

Flange x Traverse x Barrel (inches)	
13.5 x 10 x 4 Continuous length	
11 x 8.5 x 5 Continuous length	
10.5 x 5 x 3.5 Continuous length	
[Spool dimensions may vary slightly]	
	13.5 x 10 x 4 Continuous length 11 x 8.5 x 5 Continuous length 10.5 x 5 x 3.5 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: M2459

M2459, 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 4/1/2025

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