

Customer Specification

PART NO. M39109

Construction

					Diamet	ers (In)	
1) Component 1 2 X 1 COND		ND					
) AWG Tinned Copper	Tinned Copper			0.050	
b) Insulation 0.016" Wall, Nor		all, Nom. PVC/ 0.005" W	n. PVC/ 0.005" Wall NYLON				
(1) Color Code	Alpha Wi	e Color Code D					
Cond	Color	Cond	Color	Cond		Color	
1	BLACK	2	RED				
2) Cable Assembly	2 Compo	nents Cabled	·	·		·	
a) Twists: 4.4 Twists/foot (/foot (min)					
b) Orientation:	Compone	ents to be arranged fron	be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap Clear Mylar Tape		ar Tape, 25% Overlap, N	, 25% Overlap, Min.				
3) Shield: Alum/Mylar Tap		lar Tape, 25% Overlap, I	e, 25% Overlap, Min.				
a) Foil Direction Foil Facing In		g In					
b) Drain Wire 20 (19/32) AWG) AWG Tinned Copper	Tinned Copper				
4) Jacket 0.048" Wall, Nor		all, Nom.,PVC	ı.,PVC			0.287 (0.302 Max.)	
a) Color(s)	BLACK	BLACK			·		
ALPHA WIRE-* P/N M39109 2C 18 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN RES DIR BUR CE ROHS * = Factory Code							

Applicable Specifications

1) UL	тс	90°C Dry / 75°C Wet / 600 V _{RMS}	
	SUN RES		
	DIRECT BURIAL		
2) CE:	EU Low Voltage Directive 201	EU Low Voltage Directive 2014/35/EU	

Environmental

	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	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.
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	-25 to 90°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	39 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Capacitance	43 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	77 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	48 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	5.9 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	7.7 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 9 x 8 Continuous length	
b) 500 FT	12 x 10.5 x 5 Continuous length	
c) 100 FT	10.5 x 5 x 3.5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M39109

M39109, RoHS-Compliant Commencing With 11/1/2004 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)

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 5/3/2024

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