

Especificación de Cliente

NO. DE PIEZA MP16149LW

Construction

	Diameters (In)	
1) Component 1	49 X 1 COND	
a) Conductor	16 (26/30) AWG Bare Copper	0.060
b) Insulation	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.102
(1) Print	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Color Code	Alpha Wire Color Code LW	

Cond	Color	Cond	Color	Cond	Color
1	GREEN/YEL	18	DK. BLUE#17	35	DK. BLUE#34
2	DK. BLUE#1	19	DK. BLUE#18	36	DK. BLUE#35
3	WHITE/BLU	20	DK. BLUE#19	37	DK. BLUE#36
4	DK. BLUE#3	21	DK. BLUE#20	38	DK. BLUE#37
5	DK. BLUE#4	22	DK. BLUE#21	39	DK. BLUE#38
6	DK. BLUE#5	23	DK. BLUE#22	40	DK. BLUE#39
7	DK. BLUE#6	24	DK. BLUE#23	41	DK. BLUE#40
8	DK. BLUE#7	25	DK. BLUE#24	42	DK. BLUE#41
9	DK. BLUE#8	26	DK. BLUE#25	43	DK. BLUE#42
10	DK. BLUE#9	27	DK. BLUE#26	44	DK. BLUE#43
11	DK. BLUE#10	28	DK. BLUE#27	45	DK. BLUE#44
12	DK. BLUE#11	29	DK. BLUE#28	46	DK. BLUE#45
13	DK. BLUE#12	30	DK. BLUE#29	47	DK. BLUE#46
14	DK. BLUE#13	31	DK. BLUE#30	48	DK. BLUE#47
15	DK. BLUE#14	32	DK. BLUE#31	49	DK. BLUE#48
16	DK. BLUE#15	33	DK. BLUE#32		
17	DK. BLUE#16	34	DK. BLUE#33		
2) Cable Assembly				49 Components Cabled	
a) Twists:				1.0 Twists/foot (min)	
b) Orientation:				Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core Wrap				REMA Y Tape, 25% Overlap, Min.	
3) Jacket				0.085" Wall, Nom., TPE	
a) Color(s)				Yellow, Orange, Black	
b) Print				ALPHA WIRE-* P/N MP16149LW 49C 16 AWG (1.32mm ²) SERIES P (UL) TYPE TC-ER 90C WET/DRY 600V OIL RES I/II SUN RES OR TYPE PLTC 90C OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS FT4 16 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>	

Applicable Specifications

1) UL		
a) Component 1	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
b) Overall	TC	90°C Dry / 90°C Wet / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	OIL RES I/II	
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V _{RMS}
	FT4	
	C(UL) CIC CONTROL	90°C / 600V V _{RMS}
	C(UL) TC	90°C / 600V V _{RMS}
3) Other	Conductors ASTM Class K	
4) CE:	EU Low Voltage Directive 2014/35/EU	

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	-30 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	8X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	1001 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 μH/ft, Nominal
4) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	
Notes:	
a) Suitable for intermittent or light duty flexing where cycle count will be less than 1,500,000 cycles.	

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

Aunque el Alambre Alfa ('Alfa') haga cada esfuerzo razonable para asegurar allí exactitud en el momento de publicación, información y especificaciones descritas aquí son sujetos a errores u omisiones y a cambios sin el aviso, y el listado de tal información y especificaciones no asegura la disponibilidad de producto.

La alfa proporciona la información y especificaciones aquí en un 'COMO ES' base, sin representaciones o garantías, si expreso, estatutario o implicado. Nunca va a Alfa ser obligado de cualquier daño (incluso consiguiente, indirecto, secundario, especial, punitivo, o ejemplar) independientemente de, aun si la Alfa hubiera sido informada de la posibilidad de tales daños, si en una acción conforme a contrato, negligencia o cualquier otra teoría, levantándose de o en relación al uso, o inhabilidad de usar, la información o especificaciones descrito aquí.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document.

 ©2019 ALPHA WIRE - all rights reserved.



2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: MP16149LW

MP16149LW, RoHS-Compliant Commencing With 01/08/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and limits. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control"

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE),
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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 this document. This document is intended to provide guidance 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 for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Alpha Wire is not responsible for determining the applicability of legislation and regulatory requirements. Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 07/04/2026

Alpha Wire
711 Lidgerwood Ave.
Elizabeth, NJ 07207
Tel: 1-908-925-8000