

## **Customer Specification**

### **PART NO. M16117LW**

#### **Construction**

						Diameters (In)	
1) Com	nponent 1					17 X 1 COND	
a) Conductor						16 (26/30) AWG Bare Copper	0.060
b) Insu	lation					0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.102
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Col	or Code					Alpha Wire Color Code LW	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YEL	7	DK. BLUE#6	13	DK. BLUE#12		
2	DK. BLUE#1	8	DK. BLUE#7	14	DK. BLUE#13		
3	WHITE/BLL	9	DK. BLUE#8	15	DK. BLUE#14		
4	DK. BLUE#3	10	DK. BLUE#9	16	DK. BLUE#15		
5	DK. BLUE#4	11	DK. BLUE#10	17	DK. BLUE#16		
6	DK. BLUE#5	12	DK. BLUE#11				
2) Cabl	le Assembly					17 Components Cabled	
a) Twists:					1.7 Twists/foot (min)		
b) Orientation:					Components to be arranged from OUTSIDE LAYER to INSIDE LAYER		
c) Core	e Wrap					Clear Mylar Tape, 25% Overlap, Min.	
3) Jack	et					0.065" Wall, Nom.,PVC	0.644+/- 0.032
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N M16117LW 17C 16 AWG (1.32mm2) SERIES M (UL) WTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 16 AWG OR (UL) PLTC 90C OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code	

# **Applicable Specifications**

EXPOSED RUN	
EXI OSED NON	
SUN RES	
PLTC	90°C
DIRECT BURIAL	
OIL RES I	
MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
WTTC	90°C Dry / 90°C Wet / 1000 V <sub>RMS</sub>
FT4	
C(RU) AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
Conductors ASTM Class K	
EU Low Voltage Directive 2014/35/EU	
	PLTC DIRECT BURIAL OIL RES I MTW WTTC FT4 C(RU) AWM I/II A/B Conductors ASTM Class K

### **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	347 Lbs, Maximum			
4) Sunlight Resistance	Yes			
5) Direct Burial	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V <sub>RMS</sub>			
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Inductance	0.18 μH/ft, Nominal			
4) Conductor DCR	4.1 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

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

To Whom It May Concern:

Alpha Wire Part Number: M16117LW

M16117LW, RoHS-Compliant Commencing With 8/1/2005 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 3/31/2025

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