



# Customer Specification

## PART NO. M16133LW

### Construction

		<b>Diameters (In)</b>			
1) Component 1		33 X 1 COND			
a) Conductor		16 (26/30) AWG BC			
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.102	
(1) Print		ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED			
(2) Color Code		Alpha Wire Company Color Code LW			
Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	12	DK. BLUE#11	23	DK. BLUE#22
2	DK. BLUE#1	13	DK. BLUE#12	24	DK. BLUE#23
3	WHITE/BLUE	14	DK. BLUE#13	25	DK. BLUE#24
4	DK. BLUE#3	15	DK. BLUE#14	26	DK. BLUE#25
5	DK. BLUE#4	16	DK. BLUE#15	27	DK. BLUE#26
6	DK. BLUE#5	17	DK. BLUE#16	28	DK. BLUE#27
7	DK. BLUE#6	18	DK. BLUE#17	29	DK. BLUE#28
8	DK. BLUE#7	19	DK. BLUE#18	30	DK. BLUE#29
9	DK. BLUE#8	20	DK. BLUE#19	31	DK. BLUE#30
10	DK. BLUE#9	21	DK. BLUE#20	32	DK. BLUE#31
11	DK. BLUE#10	22	DK. BLUE#21	33	DK. BLUE#32
2) Cable Assembly		33 Components Cabled			
a) Twists:		1.3 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.085" Wall, Nom.,PVC		0.857+/- 0.041	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N M16133LW 33C 16 AWG (1.32mm2) SERIES M (UL) WTTC 90C DRY 75C WET 1000V OR (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I OR MTW 16 AWG OR (UL) PLTC 90C --- LLXXXXXX CSA AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

### Applicable Specifications

1) UL	TC	90&deg;C / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	SUN RES	
	PLTC	90&deg;C
	DIRECT BURIAL	
	OIL RES I	
	MTW	90&deg;C / 600 V <sub>RMS</sub>
	WTTC	90&deg;C / 1000 V <sub>RMS</sub>
2) CSA International	FT4	
	AWM I/II A/B	90&deg;C / 600 V <sub>RMS</sub>
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

## Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90&deg;C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	674 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	31 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 µH/ft, Nominal
4) Conductor DCR	4.1 O/1000ft @20&deg;C, Nominal

## Other

1) Packaging	
a) Bulk(Made-to-order)	

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742)

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:M16133LW

M16133LW , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

<b>Substance</b>	<b>Maximum Control Value</b>
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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)

*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 Company:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering &QA

1/21/2011