

Customer Specification

PART NO. M16133KW

Construction

					Diameters (In)	
1) Component 1		33 X 1	33 X 1 COND			
a) Conductor		16 (26,	16 (26/30) AWG Bare Copper		0.060	
b) Insulation		0.016"	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.102	
(1) Print			ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND			
(2) Color Cod	le	Alpha	Alpha Wire Color Code KW			
Cond	Color	Co	nd	Color	Cond	Color
1	GREEN/YELLOW	12		BLACK#11	23	BLACK#22
2	BLACK#1	13		BLACK#12	24	BLACK#23
3	WHITE/BLACK	14		BLACK#13	25	BLACK#24
4	BLACK#3	15		BLACK#14	26	BLACK#25
5	BLACK#4	16		BLACK#15	27	BLACK#26
6	BLACK#5	17		BLACK#16	28	BLACK#27
7	BLACK#6	18		BLACK#17	29	BLACK#28
8	BLACK#7	19		BLACK#18	30	BLACK#29
9	BLACK#8	20		BLACK#19	31	BLACK#30
10	BLACK#9	21		BLACK#20	32	BLACK#31
11	BLACK#10	22		BLACK#21	33	BLACK#32
2) Cable Assembly		33 Cor	33 Components Cabled			
a) Twists:		1.3 Tw	1.3 Twists/foot (min)			
b) Orientation:			Components to be arranged from OUTSIDE LAYER to INSIDE LAYER			
c) Core Wrap		Clear N	Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.085"	0.085" Wall, Nom.,PVC		0.857+/- 0.041	
a) Color(s)		SLATE	SLATE			
b) Print		SERIES (UL) TO DIR BL OR CR CE RO	ALPHA WIRE-* P/N M16133KW 33C 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 SUN RES PLTC DIRECT BURIAL	90°C	
PLTC DIRECT BURIAL	90°C	
DIRECT BURIAL	90°C	
DIL RES I		
MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
VTTC	90°C Dry / 90°C Wet / 1000 V _{RMS}	
T4		
C(RU) AWM I/II A/B	90°C / 600 V _{RMS}	
Conductors ASTM Class K		
EU Low Voltage Directive 2014/35/EU		
	ITW /TTC T4 (RU) AWM I/II A/B onductors 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	674 Lbs, Maximum			
4) Sunlight Resistance	Yes			
5) Direct Burial	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	4.1 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: M16133KW

M16133KW, 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 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 5/4/2024

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