

Request a Sample

Customer Specification PART NO. XM1812K

Construction

Construction						
				Diameters (In)		
1) Component 1		12 X 1 COND				
a) Conductor		18 (41/34) AWG Bare Copper		0.047	0.047	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.089	0.089	
(1) Print		ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED				
(2) Color Code		Alpha Wire Color Code KW				
Cond	Color	Cond	Color	Cond	Color	
1	GREEN/YELLOW	5	BLACK#4	9	BLACK#8	
2	BLACK#1	6	BLACK#5	10	BLACK#9	
3	WHITE/BLACK	7	BLACK#6	11	BLACK#10	
4	BLACK#3	8	BLACK#7	12	BLACK#11	
2) Cable Assembly		12 Components Cabled				
a) Twists:		3.4 Twists/foot (min)				
b) Orientation:		Components to be arranged from OUTSIDE LAYER to INSIDE LAYER				
c) Core Wrap		REMAY Tape, 25% Overlap, Min.				
3) Jacket		0.050" Wall, Nom.,PVC		0.485+/- 0.027		
a) Color(s)		BLACK				
b) Print		ALPHA WIRE-* P/N XM1812K 12C 18 AWG (0.825mm2) SERIES XM (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 18 AWG 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		
a) Component 1	Unlisted Conductor	90°C Dry / 75°C Wet / 600 V _{RMS}
b) Overall	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
	тс	90°C Dry / 75°C Wet / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	OIL RES I	
	wттс	90°C Dry / 75°C Wet / 1000 V _{RMS}
2) CSA International	AWM I/II A/B	90°C / 600 V _{RMS}
	FT4	
3) Other	Conductors ASTM Class M	
	Conductors IEC Class 6 on AWG size	
4) CE:	EU Low Voltage Directive 2014/35/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):				
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.			
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.			
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.			

Properties

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Physical & Mechanical Properties					
1) Temperature Range	-30 to 90°C(static), -5 to 90°C (dynamic)				
2) Bend Radius	6X Cable Diameter(static), 8X Cable Diameter(dynamic)				
3) Pull Tension	153 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	600/1000 V _{RMS}				
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor				
3) Inductance	0.19 μH/ft, Nominal				
4) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal				

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) Bulk(Made-to-order)		
Notes:		
a) Suitable for constant flexing where cycle count will be less than 12,000,000 cycles.		

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1812K

XM1812K, RoHS-Compliant Commencing With 3/16/2010 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 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) 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.

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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 & QA

Alpha Wire

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