



Customer Specification

PART NO. XM1842RCY

Construction						

						Diameters (In)	
1) Com	ponent 1					42 X 1 COND	
a) Conductor					18 (41/34) AWG Bare Copper	0.047	
b) Insulation					0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.089	
(1) Print					ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED		
(2) Col	or Code					Alpha Wire Color Code RW	_
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELLOW	15	RED#14	29	RED#28		
2	RED#1	16	RED#15	30	RED#29		
3	WHITE/RED	17	RED#16	31	RED#30		
4	RED#3	18	RED#17	32	RED#31		
5	RED#4	19	RED#18	33	RED#32		
6	RED#5	20	RED#19	34	RED#33		
7	RED#6	21	RED#20	35	RED#34		
8	RED#7	22	RED#21	36	RED#35		
9	RED#8	23	RED#22	37	RED#36		
10	RED#9	24	RED#23	38	RED#37		
11	RED#10	25	RED#24	39	RED#38		
12	RED#11	26	RED#25	40	RED#39		
13	RED#12	27	RED#26	41	RED#40		
14	RED#13	28	RED#27	42	RED#41		
2) Cabl	e Assembly					42 Components Cabled	
a) Twis	ts:					1.8 Twists/foot (min)	
b) Orientation:		Components to be arranged from OUTSIDE LAYER to INSIDE LAYER					
c) Core Wrap					REMAY Tape, 25% Overlap, Min.		
3) Shield					Tinned Copper BRAID Shield,85% Coverage, Min.		
4) Jacket					0.085" Wall, Nom.,PVC	0.915+/- 0.046	
a) Color(s)						BLACK	
b) Jacket Separator					Tissue Tape, 25% Overlap, Min.		
c) Print					ALPHA WIRE-* P/N XM1842RCY 42C 18 AWG (0.825mm2) SERIES XM (UL) WTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 18 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code		

Applicable Specifications

1) UL		
a) Component 1	Unlisted Conductor	90°C Dry / 90°C Wet / 600 V _{RMS}
b) Overall	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
	TC	90°C Dry / 90°C Wet / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	OIL RES I	
	WTTC	90°C Dry / 90°C Wet / 1000 V _{RMS}
2) CSA International	C(RU) 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/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	10X Cable Diameter(static), 10X Cable Diameter(dynamic)			
3) Pull Tension	562 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600/1000 V _{RMS}			
2) Capacitance	39 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	70 pF/ft @1 kHz, Nominal			
4) Inductance	0.19 μH/ft, Nominal			
5) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	1.07 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.	
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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1842RCY

XM1842RCY, RoHS-Compliant Commencing With 16/03/2010 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the diguide 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 context Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 02/04/2025

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