

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

Request a Sample

Customer Specification PART NO. XM1842R

Construction

				Diameters (In)	
1) Component 1		42 X 1 COND			
a) Conductor		18 (41/34) AWG	18 (41/34) AWG Bare Copper		
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.089	
(1) Print		ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED			
(2) Color 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) Cable Assembly		42 Components Cabled			
a) Twists:		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) Jacket		0.085" Wall, Nom.,PVC		0.874+/- 0.045	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N XM1842R 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	мтw	90°C Dry / 60°C Wet / 600 V _{RMS}
	тс	90°C Dry / 90°C Wet / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	OIL RES I	
	wттс	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/EC	

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.			

Properties

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	537 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.		

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1842R

XM1842R, 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.

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:

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