

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

Customer Specification PART NO. XM1865R

Construction

				Diameters (In)	
1) Component 1		65 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			
(2) Color Code		Alpha Wire Color Code RW			
Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	23	RED#22	45	RED#44
2	RED#1	24	RED#23	46	RED#45
3	WHITE/RED	25	RED#24	47	RED#46
4	RED#3	26	RED#25	48	RED#47
5	RED#4	27	RED#26	49	RED#48
6	RED#5	28	RED#27	50	RED#49
7	RED#6	29	RED#28	51	RED#50
8	RED#7	30	RED#29	52	RED#51
9	RED#8	31	RED#30	53	RED#52
10	RED#9	32	RED#31	54	RED#53
11	RED#10	33	RED#32	55	RED#54
12	RED#11	34	RED#33	56	RED#55
13	RED#12	35	RED#34	57	RED#56
14	RED#13	36	RED#35	58	RED#56 RED#57 RED#58 RED#59 RED#60
15	RED#14	37	RED#36	59	RED#58
16	RED#15	38	RED#37	60	RED#59
17	RED#16	39	RED#38	61	RED#60

18	RED#17	40	RED#39	62	RED#61
19	RED#18	41	RED#40	63	RED#62
20	RED#19	42	RED#41	64	RED#63
21	RED#20	43	RED#42	65	RED#64
22	RED#21	44	RED#43		
2) Cable Assembly		65 Components Cabled			
a) Twists:		1.4 Twists/foot (mi	n)		
b) Orientation:		Components to be arranged from OUTSIDE LAYER to INSIDE LAYER			
c) Core Wrap		REMAY Tape, 25%	IAY Tape, 25% Overlap, Min.		
3) Jacket		0.085" Wall, Nom.,PVC		1.052+/- 0.055	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N XM1865R 65C 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}	
	тс	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 siz	e	
4) CE:	EU Low Voltage Directive 2014/35/E	EU Low Voltage Directive 2014/35/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS	52):			
	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

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	831 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	6.8 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: XM1865R

XM1865R, 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)

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:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 10/15/2020

Mouser Electronics

Authorized Distributor

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