



Customer Specification

PART NO. XM1665R

Construction						

						Diameters (In)	
						65 X 1 COND	
,	l 					16 (65/34) AWG Bare Copper	0.059
'					0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.101	
(1) Print					ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED		
(2) Co	lor Code					Alpha Wire Color Code RW	
Cond	Color	Cond	Color	Cond	Color		<u> </u>
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#57		
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) Cab	le Assembly					65 Components Cabled	
a) Twi	sts:					1.2 Twists/foot (min)	
b) Orientation:		Components to be arranged from OUTSIDE LAYER to INSIDE LAYER					
 					REMAY Tape, 25% Overlap, Min.		
<u> </u>					0.085" Wall, Nom.,PVC	1.168+/- 0.056	
					BLACK		
b) Print					ALPHA WIRE-* P/N XM1665R 65C 16 AWG (1.31mm2) 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 16 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	6X Cable Diameter(static), 8X Cable Diameter(dynamic)	
3) Pull Tension	1317 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	0.18 μH/ft, Nominal	
4) Conductor DCR	4.3 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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www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1665R

XM1665R, 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 content 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 31/03/2025

Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000