



Customer Specification

PART NO. M16165RW

Construction				

a) Cond b) Insul (1) Prin (2) Cold Cond 1	ation t or Code Color	Cond				Diameters (In) 65 X 1 COND 16 (26/30) AWG Bare Copper	0.060
a) Cond b) Insul (1) Prin (2) Cold Cond 1	ductor lation t or Code Color	Cond					0.060
b) Insul (1) Prin (2) Cold Cond 1	ation t or Code Color	Cond					
(1) Prin (2) Cold Cond 1	t or Code Color	Cond				0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.102
(2) Cold Cond 1	or Code Color	Cond				ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND	
Cond 1 2	Color	Cond	II(1) Print			INVERTED	_
1		Cond				Alpha Wire Color Code RW	
2	GREEN/YELLOW	Cond	Color	Cond	Color		
		23	RED#22	45	RED#44		
	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) Cabl	e Assembly					65 Components Cabled	
a) Twis	ts:					0.9 Twists/foot (min)	
b) Orie	ntation:					Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
<u> </u>						0.085" Wall, Nom.,PVC	1.122+/- 0.054
 					SLATE		
b) Print						ALPHA WIRE-* P/N M16165RW 65C 16 AWG (1.32mm2) SERIES M (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 (UL) PLTC 90C OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code	

Applicable Specifications

1) UL	тс	90°C Dry / 90°C Wet / 600 V _{RMS}	
	EXPOSED RUN		
	SUN RES		
	PLTC	90°C	
	DIRECT BURIAL		
	OIL RES I		
	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
	WTTC	90°C Dry / 90°C Wet / 1000 V _{RMS}	
2) CSA International	FT4		
	C(RU) AWM I/II A/B	90°C / 600 V _{RMS}	
3) Other	Conductors ASTM Class K		
4) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

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.	
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.	
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	8X Cable Diameter(static), 8X Cable Diameter(dynamic)	
3) Pull Tension	1327 Lbs, Maximum	
4) Sunlight Resistance	Yes	
5) Direct Burial	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Inductance	0.18 μH/ft, Nominal	
4) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	
Notes:	
a) Suitable for intermittent or light duty flexing where cycle count will be less than 1,500,000 cycles.	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M16165RW

M16165RW, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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 9/16/2025

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