



Customer Specification

PART NO. F16065KW

Construction		

						Diameters (In)	
1) Con	ponent 1					65 X 1 COND	
a) Conductor		16 (65/34) AWG Bare Copper	0.059				
1					0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.101	
						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND	
(1) Print			INVERTED				
(2) Col	or Code					Alpha Wire Color Code KW	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELI	23	BLACK#22	45	BLACK#44		
2	BLACK#1	24	BLACK#23	46	BLACK#45		
3	WHITE/BLA	25	BLACK#24	47	BLACK#46		
4	BLACK#3	26	BLACK#25	48	BLACK#47		
5	BLACK#4	27	BLACK#26	49	BLACK#48		
6	BLACK#5	28	BLACK#27	50	BLACK#49		
7	BLACK#6	29	BLACK#28	51	BLACK#50		
8	BLACK#7	30	BLACK#29	52	BLACK#51		
9	BLACK#8	31	BLACK#30	53	BLACK#52		
10	BLACK#9	32	BLACK#31	54	BLACK#53		
11	BLACK#10	33	BLACK#32	55	BLACK#54		
12	BLACK#11	34	BLACK#33	56	BLACK#55		
13	BLACK#12	35	BLACK#34	57	BLACK#56		
14	BLACK#13	36	BLACK#35	58	BLACK#57		
15	BLACK#14	37	BLACK#36	59	BLACK#58		
16	BLACK#15	38	BLACK#37	60	BLACK#59		
17	BLACK#16	39	BLACK#38	61	BLACK#60		
18	BLACK#17	40	BLACK#39	62	BLACK#61		
19	BLACK#18	41	BLACK#40	63	BLACK#62		
20	BLACK#19	42	BLACK#41	64	BLACK#63		
21	BLACK#20	43	BLACK#42	65	BLACK#64		
22	BLACK#21	44	BLACK#43				
2) Cab	e Assembly					65 Components Cabled	
a) Twis	ts:					1.2 Twists/foot (min)	
b) Orie	ntation:					Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core Wrap			REMAY Tape, 25% Overlap, Min.				
<u> </u>		0.085" Wall, Nom.,TPE	1.168+/- 0.056				
a) Colc	r(s)					BLACK	
b) Prin	t					ALPHA WIRE-* P/N F16065KW 65C 16 AWG (1.31mm2) SERIES F (UL) TYPE TC-ER 90C WET/DRY 600V OIL RES I/II -40C SUN RES OR TYPE PLTC 90C OR C(UL) CIC CONTROL/TC 16 AWG -40C 90C WET 90C DRY PVC/NYLON INS FT4 OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

Applicable Specifications

1) UL		
a) Component 1	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
b) Overall	-40C	
	TC	90°C Dry / 90°C Wet / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	OIL RES I/II	
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V _{RMS}
	FT4	
	C(UL) CIC CONTROL	90°C / 600V V _{RMS}
	C(UL) TC	90°C Dry / 90°C Wet / 600V V _{RMS}
	-40C	
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	-40 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 V _{RMS}
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 μH/ft, Nominal
	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 20,000,000 cycles.	
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www.alphawire.com

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SpecPDFFooterConfidential



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: F16065KW

F16065KW, RoHS-Compliant Commencing With 01/08/2005 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 04/08/2025

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