

Customer Specification

PART NO. F16065LW

Construction

	Diameters (In)	
1) Component 1	65 X 1 COND	
a) Conductor	16 (65/34) AWG Bare Copper	0.059
b) Insulation	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.101
(1) Print	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Color Code	Alpha Wire Color Code LW	

Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YEL	23	DK. BLUE#22	45	DK. BLUE#44		
2	DK. BLUE#1	24	DK. BLUE#23	46	DK. BLUE#45		
3	WHITE/BLL	25	DK. BLUE#24	47	DK. BLUE#46		
A 1	DK. BLUE#3	26	DK. BLUE#25	48	DK. BLUE#47		
5 1	DK. BLUE#4	27	DK. BLUE#26	49	DK. BLUE#48		
6	DK. BLUE#5	28	DK. BLUE#27	50	DK. BLUE#49		
/	DK. BLUE#6	29	DK. BLUE#28	51	DK. BLUE#50		
X I	DK. BLUE#7	30	DK. BLUE#29	52	DK. BLUE#51		
y 1	DK. BLUE#8	31	DK. BLUE#30	53	DK. BLUE#52		
10 1	DK. BLUE#9	32	DK. BLUE#31	54	DK. BLUE#53		
11	DK. BLUE#10	33	DK. BLUE#32	55	DK. BLUE#54		
12 1	DK. BLUE#11	34	DK. BLUE#33	56	DK. BLUE#55		
1 3 1	DK. BLUE#12	35	DK. BLUE#34	57	DK. BLUE#56		
14	DK. BLUE#13	36	DK. BLUE#35	58	DK. BLUE#57		
15 1	DK. BLUE#14	37	DK. BLUE#36	59	DK. BLUE#58		
16	DK. BLUE#15	38	DK. BLUE#37	60	DK. BLUE#59		
17	DK. BLUE#16	39	DK. BLUE#38	61	DK. BLUE#60		
18 1	DK. BLUE#17	40	DK. BLUE#39	62	DK. BLUE#61		
10 1	DK. BLUE#18	41	DK. BLUE#40	63	DK. BLUE#62		
20 1	DK. BLUE#19	42	DK. BLUE#41	64	DK. BLUE#63		
21	DK. BLUE#20	43	DK. BLUE#42	65	DK. BLUE#64		
,, ,	DK. BLUE#21	44	DK. BLUE#43				
2) Cable	e Assembly					65 Components Cabled	
a) Twist	ts:					1.2 Twists/foot (min)	
b) Orieı	ntation:					Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core						REMAY Tape, 25% Overlap, Min.	
3) Jacke						0.085" Wall, Nom.,TPE	1.168+/- 0.056
a) Colo	r(S)					BLACK	

	ALPHA WIRE-* P/N F16065LW 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
b) Print	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

90°C Dry / 60°C Wet / 600 V _{RMS}	
90°C Dry / 90°C Wet / 600 V _{RMS}	
90°C	
90°C / 600 V _{RMS}	
90°C / 600V V _{RMS}	
90°C Dry / 90°C Wet / 600V V _{RMS}	

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	nperature 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	Tension 1317 Lbs, Maximum		
4) Sunlight Resistance	ight 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) Conductor DCR	4.3 Ω/1000ft @20°C, Nominal		

Other

Flange x Traverse x Barrel (inches)
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www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: F16065LW

F16065LW, 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 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)

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 8/4/2025

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