

Customer Specification

PART NO. F16049LW

Construction

	Diameters (In)	
1) Component 1	49 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	18	DK. BLUE#17	35	DK. BLUE#34
2	DK. BLUE#1	19	DK. BLUE#18	36	DK. BLUE#35
3	WHITE/BLU	20	DK. BLUE#19	37	DK. BLUE#36
4	DK. BLUE#3	21	DK. BLUE#20	38	DK. BLUE#37
5	DK. BLUE#4	22	DK. BLUE#21	39	DK. BLUE#38
6	DK. BLUE#5	23	DK. BLUE#22	40	DK. BLUE#39
7	DK. BLUE#6	24	DK. BLUE#23	41	DK. BLUE#40
8	DK. BLUE#7	25	DK. BLUE#24	42	DK. BLUE#41
9	DK. BLUE#8	26	DK. BLUE#25	43	DK. BLUE#42
10	DK. BLUE#9	27	DK. BLUE#26	44	DK. BLUE#43
11	DK. BLUE#10	28	DK. BLUE#27	45	DK. BLUE#44
12	DK. BLUE#11	29	DK. BLUE#28	46	DK. BLUE#45
13	DK. BLUE#12	30	DK. BLUE#29	47	DK. BLUE#46
14	DK. BLUE#13	31	DK. BLUE#30	48	DK. BLUE#47
15	DK. BLUE#14	32	DK. BLUE#31	49	DK. BLUE#48
16	DK. BLUE#15	33	DK. BLUE#32		
17	DK. BLUE#16	34	DK. BLUE#33		
2) Cable Assembly				49 Components Cabled	
a) Twists:				1.4 Twists/foot (min)	
b) Orientation:				Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core Wrap				Polyester Fabric Tape, 25% Overlap, Min.	
3) Jacket				0.085" Wall, Nom.,TPE	1.072+/- 0.051
a) Color(s)				BLACK	
b) Print				ALPHA WIRE-* P/N F16049LW 49C 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 <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>	

Applicable Specifications

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	993 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) 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 20,000,000 cycles.	

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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Alpha Wire □□□□F16049LW

Alpha 2011/65/EU RoHS2 2015/863/EU
RoHS SJ/T 11364-2014

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Lead

Mercury

Cadmium

Hexavalent Chromium

Polybrominated Biphenyls (PBB)

Polybrominated Diphenyl Ethers (PBDE),

Including Deca-BDE

Bis(2-ethylhexyl) phthalate (DEHP)

Butyl benzyl phthalate (BBP)

Dibutyl phthalate (DBP)

Diisobutyl phthalate (DIBP)

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0.1% (1000 ppm)

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