

Customer Specification

PART NO. F18049RW

Construction

						Diameters (In)		
1) Component 1						49 X 1 COND		
a) Conductor						18 (41/34) AWG Bare Copper		0.047
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.089
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED		
(2) Color Code						Alpha Wire Color Code RW		
Cond	Color	Cond	Color	Cond	Color			
1	GREEN/YELLOW	18	RED#17	35	RED#34			
2	RED#1	19	RED#18	36	RED#35			
3	WHITE/RED	20	RED#19	37	RED#36			
4	RED#3	21	RED#20	38	RED#37			
5	RED#4	22	RED#21	39	RED#38			
6	RED#5	23	RED#22	40	RED#39			
7	RED#6	24	RED#23	41	RED#40			
8	RED#7	25	RED#24	42	RED#41			
9	RED#8	26	RED#25	43	RED#42			
10	RED#9	27	RED#26	44	RED#43			
11	RED#10	28	RED#27	45	RED#44			
12	RED#11	29	RED#28	46	RED#45			
13	RED#12	30	RED#29	47	RED#46			
14	RED#13	31	RED#30	48	RED#47			
15	RED#14	32	RED#31	49	RED#48			
16	RED#15	33	RED#32					
17	RED#16	34	RED#33					
2) Cable Assembly						49 Components Cabled		
a) Twists:						1.5 Twists/foot (min)		
b) Orientation:						Components to be arranged from OUTSIDE LAYER to INSIDE LAYER		
c) Core Wrap						REMAI Tape, 25% Overlap, Min.		
3) Jacket						0.085" Wall, Nom.,TPE		0.965+/- 0.050
a) Color(s)						BLACK		
b) Print						ALPHA WIRE-* P/N F18049RW 49C 18 AWG (0.825mm2) 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 18 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

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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	627 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	26 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.19 µH/ft, Nominal
4) Conductor DCR	6.8 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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Alpha Wire □□□□F18049RW

Alpha 2011/65/EU RoHS2015/863/EURoHSSJ/T 11364-2014

Lead	□□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	□□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□□0.1% (1000 ppm)

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