

Adagio Electrical Design — Circuit Groupings

Circ ID	Description	Spec dv%	Act dv%	Run	1way Len	Consumers		Amps	Loop		ABYC Code		Loop Weight (lbs)	Loop Ohms	
						Dev	Description		V	Total Len	Total Amps	mm^2			AWG
1	24V Bank Interconnect	2%	1.5%	FT20	20	1968	Housebank +24V Dist	150	24	40	150	91	0000	33	0.0024
2	Winches	4%	3.5%	12	12	2020	Winch Junction Box	80	24	88	80	46	0	38	0.0105
				13	12										
				14	10										
				15	10										
3	Stbd Alternator	3%	3.0%	FT6	6	1914	Stb Alternator 24VDC	70	24	96	70	51	0	42	0.0103
				10	27										
				16	15										
4	Port NEG Under Power	4%	3.5%	06	8	401	Port Alternator 24VDC	70	24	92	77	46	0	40	0.0109
				13	12	1048	Port Eng Controls	7	12						
				14	10										
				15	10										
				FT6	6										
5	Port NEG Under Sail	4%	4.0%	06	8	2020	Winch Junction Box	80	24	80	110	50	0	35	0.0088
				13	12	475	Refrig, raw water pump	2	24						
				14	10	469	Refrig, DC compressor	28	24						
				15	10										
6	Sealand pumps	2%	1.5%	FT10	10	1322	Stb, Head, vacuum pump	3	24	22	3	1	16	0	0.1200
				ADJ	1										
7	Shower sump pumps	2%	1.5%	FT10	10	1378	Pump Elec Port Shower	3	24	22	3	1	16	0	0.1125
				ADJ	1										
8	Spectra seawater pump	1%	1.0%	17	8	1970	Watermaker Seawater Pump	5	24	18	5	2	14	0	0.0480
				ADJ	1										
9	Fuel transfer pump	1%	0.5%	FT6	6	567	Fuel transfer pump, 8'	4	24	14	4	2	12	0	0.0343
				ADJ	1										
10	Windlasses	2%	2.0%	01	6	488	Windlass, 1500W, 450kg	75	24	40	75	34	1	14	0.0064
				02	8										
				FT6	6										

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11	Port-stb Sump Pumps	3%	3.0%	18	11	2042	Stb Bilge Pump	9	24	24	9	2	14	1	0.0837
				ADJ	1										
12	Refrigeration	1%	1.0%	FT6	6	469	Refrig, DC compressor	28	24	14	32	10	6	2	0.0076
				ADJ	1	475	Refrig, raw water pump	2	24						
						1912	Refrig, Artic Air #1	1	24						
						1915	Refrig, Artic Air #2	1	24						
13	Port Engine Starter	2%	1.5%	06	8	1986	Port Engine	100	12	16	100	48	0	7	0.0018
14	Stb Engine Starter	2%	2.0%	10.1	10	551	Stb Engine	100	12	20	100	45	0	9	0.0024
15	Port/Stb 12V Parallel	6%	6.0%	FT6	6	551	Stb Engine	100	12	68	100	51	0	30	0.0072
				06	8										
				07	20										
16	Masthead Tricolor	3%	3.0%	36	8	438	Tri-color,anchor,stroke	1	24	154	1	1	16	2	0.7198
				37	69										
17	Spreader Lights	2%	?	36	8	1793				86		1	20	0	0.9026
				38	35										
18	Steaming Light	3%	3.0%	36	8	1814	NavLite, Steaming/deck	2	24	86	2	1	16	1	0.3599
				38	35										
20	Inverter	2%	1.5%	FT3	3	418	Inverter 24VDC supply	125	24	22	125	42	1	8	0.0029
				01.2	8										
21	Alternator fields 24V	0%	0.4%	07	20	2082	Oil pressure relay port	1	24	52	1	1	14	1	0.1920
				FT6	6										
22	Washer/dryer	3%	1.4%	40	8	486	Washer	9	230	16	19	1	20	0	0.1679
						1909	Dryer	10	230						

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						Dev	Description			Total Len	Total Amps	mm^2	AWG		
23	x Pantry AC Panel	3%	0.7%	43	25	1910	Microwave/convection oven	6	230	50	83	13	6	6	0.0205
							1913 Galley hob	14	230						
							1911 Dishwasher	8	230						
							2085 Disposal	5	230						
							456 Outlet, GFI, Port Head	5	230						
							2097 Outlet, GFI, Port Fwd	5	230						
							2099								
							459 Outlet, GFI, Cockpit	10	230						
							457 Outlet, GFI, Pantry	10	230						
							460 Outlet, GFI, Galley	10	230						
24	x Navstation AC Outlets	3%	1.0%	41	14	462	Outlet, GFI, Nav Station	5	230	28	30	2	14	1	0.0733
							462 Outlet, GFI, Nav Station	5	230						
							462 Outlet, GFI, Nav Station	5	230						
							462 Outlet, GFI, Nav Station	5	230						
							462 Outlet, GFI, Nav Station	5	230						
25	x Stb Aft AC Outlets	3%	1.0%	44	15	461	Outlet, GFI, Dish cabinet,	10	230	30	30	2	14	1	0.0785
							2093 Outlet, GFI, Stb Wardrobe	10	230						
							2092 Outlet, GFI, Stb Head	10	230						
26	x Dishwasher,disposal	3%	0.5%	47	8	1911	Dishwasher	8	230	16	28	2	14	0	0.0419
							2091 Outlet, GFI, Disposal	10	230						
							2096 Outlet, GFI, Galley fwd	10	230						
27	x Hob,microwave	3%	0.8%	48	12	1910	Microwave/convection oven	6	230	24	30	2	14	1	0.0628
							1913 Galley hob	14	230						
							459 Outlet, GFI, Cockpit	10	230						
							2099								

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						Dev	Description			Total Len	Total Amps	mm^2	AWG		
28	x Galley,pantry outlets	3%	0.5%	46	8	457	Outlet, GFI, Pantry	10	230	16	40	3	12	0	0.0263
						457	Outlet, GFI, Pantry	10	230						
						460	Outlet, GFI, Galley	10	230						
						460	Outlet, GFI, Galley	10	230						
29	Housebank to Machinery	2%	2.0%	01	6	2106	Charger 75A@24VDC, DC	75	24	24	225	61	00	13	0.0021
				FT6	6	2106	Charger 75A@24VDC, DC	75	24						
						488	Windlass, 1500W, 450kg	75	24						
30	Port Head 24V Panel	1%	1.0%	04	7	1319	Port, Head, vacuum pump	3	24	14	11	3	10	1	0.0218
						2076	Terminal Block, port	3	24						
						2080	Terminal Block, port	5	24						
31	Refrigeration seawater pump	1%	1.0%	FT10	10	475	Refrig, raw water pump	2	24	20	2	1	16	0	0.1500
32	Stb freshwater pump	1%	1.0%	17	8	1934	Pump, freshwater stbd #1	5	24	18	5	2	14	0	0.0480
				ADJ	1										
33	Port freshwater pump	1%	0.6%	04	7	1259	Pump, freshwater port	5	24	16	5	3	12	0	0.0288
				ADJ	1										
36	x Shore to Isolation Transformer	1%	0.8%	39	12	420	Isolation transformer, 5kW	22	230	24	22	2	14	1	0.0836
37	Lites Shop D8	7%	5.9%	59	17	433	Lite, Halogen 20W	1	24	34	4	1	20	0	0.3569
						433	Lite, Halogen 20W	1	24						
						454	Lite, Flourescent 13W	1	24						
						454	Lite, Flourescent 13W	1	24						
38	Lites Stb Head D7	7%	6.3%	58	15	433	Lite, Halogen 20W	1	24	30	5	1	20	0	0.3149
						433	Lite, Halogen 20W	1	24						
						433	Lite, Halogen 20W	1	24						
						433	Lite, Halogen 20W	1	24						
39	Lites Pantry D3	7%	3.1%	63	15	454	Lite, Flourescent 13W	1	24	30	2	1	20	0	0.3149
						454	Lite, Flourescent 13W	1	24						
						454	Lite, Flourescent 13W	1	24						

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40	Genset Battery Loop	3%	3.0%	01.1	12	1768	Genset Battery	100	12	28	100	42	1	10	0.0036
				ADJ	1										
				ADJ	1										
41	Autopilot pumpset	3%	3.0%	22	50	1037	Pump hydraulic size	18	24	112	18	15	4	20	0.0411
				FT6	6										
43	Charger circuit	1%	1.0%	FT6	6	2106	Charger 75A@24VDC, DC	75	24	18	150	61	00	10	0.0016
				FT3	3	2106	Charger 75A@24VDC, DC	75	24						
45	Saloon settee dishcab	4%	4.0%	70	22	2373	Settee table light	4	24	44	5	1	16	1	0.2133
						2374	Dish cab light	1	24						