

24 VOLT DC SYSTEM

LENGTH OF CONDUCTOR *from Source of Current to Device and Back to Source (feet)*

3%	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
5	18*	18*	18*	16	16	14	12	12	12	10	10	10	10	10	8	8	8	8	8
10	18*	16	14	12	12	10	10	10	8	8	8	6	6	6	6	6	6	6	6
15	16	14	12	12	10	10	8	8	6	6	6	6	6	4	4	4	4	4	2
20	14	12	10	10	10	8	6	6	6	4	4	4	4	4	2	2	2	2	2
25	12	12	10	10	8	6	6	6	4	4	4	4	2	2	2	2	2	2	2
30	12	10	10	8	8	6	6	4	4	4	2	2	2	2	2	1	1	1	1
40	10	10	8	6	6	4	4	2	2	2	2	2	1	1	1	0	0	0	2/0
50	10	8	6	6	4	4	2	2	2	1	1	0	0	0	2/0	2/0	2/0	2/0	3/0
60	10	8	6	6	4	4	2	2	1	1	0	0	0	2/0	2/0	3/0	3/0	3/0	3/0
70	8	6	6	4	4	2	2	1	1	0	0	2/0	2/0	3/0	3/0	3/0	3/0	4/0	4/0
80	8	6	6	4	4	2	2	1	0	0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0
90	8	6	4	4	2	2	1	0	0	2/0	2/0	3/0	3/0	4/0	4/0	4/0	4/0	4/0	4/0
100	6	6	4	4	2	2	1	0	2/0	2/0	3/0	3/0	4/0	4/0	4/0				

NOTE: The numbers shown are based on the distance from power source to light and back (round trip).

* For single conductor wire, ABYC requires a minimum of 16 AWG with some limited exceptions.

Wire Gauges for a 3% Voltage Drop in a 24 Volt DC System

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R Bogdan

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