

**TABLE X - CONDUCTORS SIZES FOR 10 PERCENT VOLTAGE DROP**

**NOTE: In the event of a conflict between the voltage drop table and the ampacity table, use the larger wire size.**

Length of Conductor from Source of Current to Device and Back to Source - Feet

TOTAL CURRENT ON CIRCUIT IN AMPS	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	12 Volts - 10% Drop Wire Sizes (gauge)										Based on Minimum CM Area								
5	18	18	18	18	18	16	16	14	14	14	12	12	12	12	12	10	10	10	10
10	18	18	16	16	14	14	12	12	10	10	10	10	8	8	8	8	8	8	6
15	18	16	14	14	12	12	10	10	8	8	8	8	6	6	6	6	6	6	6
20	16	14	14	12	12	10	10	8	8	6	6	6	6	6	4	4	4	4	4
25	16	14	12	12	10	10	8	6	6	6	6	6	4	4	4	4	4	4	2
30	14	12	12	10	10	8	8	6	6	6	6	4	4	4	2	2	2	2	2
40	14	12	10	10	8	8	6	6	6	4	4	4	2	2	2	2	2	2	2
50	12	10	10	8	8	6	6	4	4	4	2	2	2	2	2	1	1	1	1
60	12	10	8	8	6	6	4	4	2	2	2	2	2	1	1	1	0	0	0
70	10	8	8	6	6	6	4	2	2	2	2	1	1	1	0	0	0	2/0	2/0
80	10	8	8	6	6	4	4	2	2	2	1	1	0	0	0	2/0	2/0	2/0	2/0
90	10	8	6	6	6	4	2	2	2	1	1	0	0	0	2/0	2/0	2/0	3/0	3/0
100	10	8	6	6	4	4	2	2	1	1	0	0	0	2/0	2/0	2/0	3/0	3/0	3/0

TOTAL CURRENT ON CIRCUIT IN AMPS	24 Volts - 10% Drop Wire Sizes (gauge)										Based on Minimum CM Area									
	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	
5	18	18	18	18	18	18	18	18	16	16	16	16	14	14	14	14	14	14	12	
0	18	18	18	18	18	16	16	14	14	14	12	12	12	12	12	10	10	10	10	
15	18	18	18	16	16	14	14	12	12	12	10	10	10	10	8	8	8	8	8	
20	18	18	16	16	14	14	12	12	10	10	10	10	8	8	8	8	8	8	6	
25	18	16	16	14	14	12	12	10	10	10	8	8	8	8	6	6	6	6	6	
30	18	16	14	14	12	12	10	10	8	8	8	8	8	6	6	6	6	6	6	
40	16	14	14	12	12	10	10	8	8	8	6	6	6	6	6	4	4	4	4	
50	16	14	12	12	10	10	8	8	6	6	6	6	6	4	4	4	4	4	2	
60	14	12	12	10	10	8	8	6	6	6	6	4	4	4	4	2	2	2	2	
70	14	12	10	10	8	8	6	6	6	6	4	4	4	2	2	2	2	2	2	
80	14	12	10	10	8	8	6	6	6	4	4	4	2	2	2	2	2	2	2	
90	12	10	10	8	8	6	6	6	4	4	4	2	2	2	2	2	2	1	1	
100	12	10	10	8	8	6	6	4	4	4	2	2	2	2	2	1	1	1	1	