

Loop Size Chart

Recommended Loop Size		EMX Preformed Saw Cut Loop Part #		
Driveway Width	Residential	Commercial	50 ft lead wire	100 ft lead wire
8-10 ft	2x6 ft		PR-26-50	PR-26-100
	4x6 ft		PR-46-50	PR-46-100
		6x6 ft	PR-48-50	PR-48-100
12 ft	4x8 ft		PR-48-50	PR-48-100
	4x10 ft		PR-410-50	PR-410-100
		6x10 ft	PR-610-50	PR-610-100
14 ft	4x10 ft		PR-410-50	PR-410-100
		6x10 ft	PR-610-50	PR-610-100
16 ft	4x12 ft		PR-610-50	PR-610-100
		6x10 ft	PR-610-50	PR-610-100
18 ft	6x14 ft		PR-812-50	PR-812-100
		6x14 ft	PR-812-50	PR-812-100

When used in safety applications, EMX recommends loop coverage within 2 ft of the driveway's edge.

Failure to do this may allow small vehicles and bicycles to pass around the loop undetected.

Detection height is determined by 66% of the shortest side of the loop.

For example: detection height of a 6x10 loop = $0.66 \times 6 \text{ ft} = 4 \text{ ft}$ detection height

LOOP SIZES & CHARACTERISTICS

Loop Size Length	Loop Size Width	Inductance	Turns	Detection Height Feet
2 (0.61m)	2 (0.61m)	60	5	1.6 (0.488m)
2 (0.61m)	4 (1.22m)	60	4	1.6 (0.488m)
2 (0.61m)	6 (1.83m)	80	4	1.6 (0.488m)
2 (0.61m)	8 (2.44m)	60	3	1.6 (0.488m)
2 (0.61m)	10 (3.05m)	72	3	1.6 (0.488m)
2 (0.61m)	12 (3.66m)	84	3	1.6 (0.488m)
2 (0.61m)	14 (4.27m)	96	3	1.6 (0.488m)
2 (0.61m)	16 (4.88m)	108	3	1.6 (0.488m)
2 (0.61m)	18 (5.49m)	120	3	1.6 (0.488m)
2 (0.61m)	20 (6.10m)	132	3	1.6 (0.488m)

4 (1.22m)	4 (1.22m)	80	4	3.2 (0.975m)
4 (1.22m)	6 (1.83m)	100	4	3.2 (0.975m)
4 (1.22m)	8 (2.44m)	72	3	3.2 (0.975m)
4 (1.22m)	10 (3.05m)	84	3	3.2 (0.975m)
4 (1.22m)	12 (3.66m)	96	3	3.2 (0.975m)
4 (1.22m)	14 (4.27m)	108	3	3.2 (0.975m)
4 (1.22m)	16 (4.88m)	120	3	3.2 (0.975m)
4 (1.22m)	18 (5.49m)	132	3	3.2 (0.975m)
4 (1.22m)	20 (6.10m)	144	3	3.2 (0.975m)
4 (1.22m)	22 (6.71m)	156	3	3.2 (0.975m)
4 (1.22m)	24 (7.32m)	168	3	3.2 (0.975m)
4 (1.22m)	26 (7.93m)	180	3	3.2 (0.975m)
4 (1.22m)	28 (8.54m)	192	3	3.2 (0.975m)
4 (1.22m)	30 (9.14m)	102	2	3.2 (0.975m)
4 (1.22m)	32 (9.75m)	108	2	3.2 (0.975m)
4 (1.22m)	33 (10.06m)	111	2	3.2 (0.975m)
4 (1.22m)	34 (10.36m)	114	2	3.2 (0.975m)
4 (1.22m)	36 (10.97m)	120	2	3.2 (0.975m)
4 (1.22m)	38 (11.58m)	126	2	3.2 (0.975m)
4 (1.22m)	40 (12.20m)	132	2	3.2 (0.975m)

Loop Size Length	Loop Size Width	Inductance	Turns	Detection Height Feet
6 (1.83m)	6 (1.83m)	120	4	4.8 (1.463m)
6 (1.83m)	8 (2.44m)	84	3	4.8 (1.463m)
6 (1.83m)	10 (3.05m)	96	3	4.8 (1.463m)
6 (1.83m)	12 (3.66m)	108	3	4.8 (1.463m)
6 (1.83m)	14 (4.27m)	120	3	4.8 (1.463m)
6 (1.83m)	16 (4.88m)	132	3	4.8 (1.463m)
6 (1.83m)	18 (5.49m)	144	3	4.8 (1.463m)
6 (1.83m)	20 (6.10m)	178	2	4.8 (1.463m)
6 (1.83m)	22 (6.71m)	84	2	4.8 (1.463m)
6 (1.83m)	24 (7.32m)	90	2	4.8 (1.463m)
6 (1.83m)	26 (7.93m)	96	2	4.8 (1.463m)
6 (1.83m)	28 (8.54m)	102	2	4.8 (1.463m)
6 (1.83m)	30 (9.14m)	108	2	4.8 (1.463m)
6 (1.83m)	32 (9.75m)	114	2	4.8 (1.463m)
6 (1.83m)	33 (10.06m)	117	2	4.8 (1.463m)
6 (1.83m)	34 (10.36m)	120	2	4.8 (1.463m)
6 (1.83m)	36 (10.97m)	126	2	4.8 (1.463m)
6 (1.83m)	38 (11.58m)	132	2	4.8 (1.463m)
6 (1.83m)	40 (12.20m)	138	2	4.8 (1.463m)

8 (2.44m)	4 (1.22m)	120	4	3.2 (0.975m)
8 (2.44m)	6 (1.83m)	140	4	4.8 (1.463m)
8 (2.44m)	8 (2.44m)	96	3	5.6 (1.71m)
8 (2.44m)	10 (3.05m)	108	3	5.6 (1.71m)
8 (2.44m)	12 (3.66m)	120	3	5.6 (1.71m)
8 (2.44m)	14 (4.27m)	132	3	5.6 (1.71m)
8 (2.44m)	16 (4.88m)	144	3	5.6 (1.71m)
8 (2.44m)	18 (5.49m)	78	2	5.6 (1.71m)
8 (2.44m)	20 (6.10m)	84	2	5.6 (1.71m)
8 (2.44m)	22 (6.71m)	90	2	5.6 (1.71m)
8 (2.44m)	24 (7.32m)	96	2	5.6 (1.71m)
8 (2.44m)	26 (7.93m)	102	2	5.6 (1.71m)
8 (2.44m)	28 (8.54m)	108	2	5.6 (1.71m)
8 (2.44m)	30 (9.14m)	114	2	5.6 (1.71m)
8 (2.44m)	32 (9.75m)	120	2	5.6 (1.71m)
8 (2.44m)	33 (10.06m)	123	2	5.6 (1.71m)
8 (2.44m)	34 (10.36m)	126	2	5.6 (1.71m)
8 (2.44m)	36 (10.97m)	132	2	5.6 (1.71m)
8 (2.44m)	38 (11.58m)	138	2	5.6 (1.71m)
8 (2.44m)	40 (12.20m)	144	2	5.6 (1.71m)

All the figures are approximate, actual results may vary

Serial resistance: Between leads is to be less than 5 Ohms

Leakage to ground: Between one lead wire and the ground should be more than 10 mega ohm at 500 VDC for one minute. Use DI 6200 insulation tester or equivalent. (older loops may be to 1 mega ohm)

Lead wires should be twisted at least 6 turns per foot (0.305m)