



## Instruction Manual

The lite preformed loop is a ready to use solution for fast and easy loop installation. It is constructed of stranded wire conductors with thermoplastic rubber insulation. The outer shell is a flexible nonmetallic with a .026" diameter. The PR-loop provides built-in lightning protection and is suitable for saw cut, tar and concrete installations.

### Cautions and Warnings



This product is an accessory or part of a system. Install the PR-LOOP according to instructions from the vehicle loop detector and the gate or door operator manufacturer. Comply with all applicable codes and safety regulations.

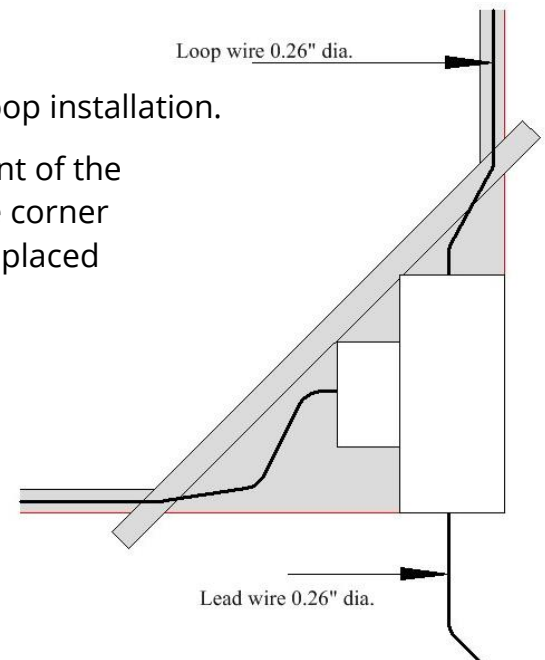
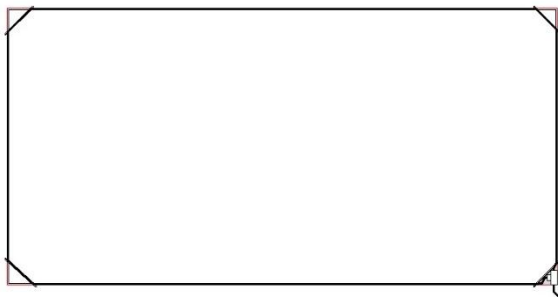
### Ordering Information

- PR-XX                      Lite preformed loop (XX – specify size)

### Installation

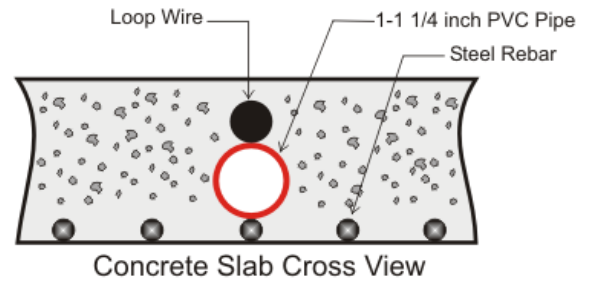
**Read the following list of tips prior to beginning the installation process. This will save significant time in the long run.**

- It is not recommended to install a loop near power lines (overhead or underground) or low voltage lighting. If necessary near these power sources, place at a 45° angle. Make the loop shape a diamond, not a square.
- Never install a loop near inductive heaters.
- The figure below represents the layout of a standard loop installation.
- The figure to the right shows the location and placement of the "T" into a corner of the saw cut after the removal of the corner section (indicated in gray). The lead and loop wires are placed into the saw cut and trench as needed.



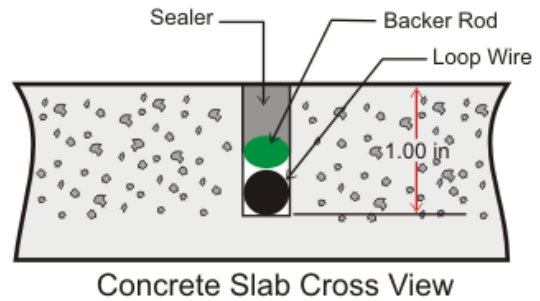
### NEW SLAB POUR

Ty-wrap 1-1/4" PVC pipe to the top of the rebar in the size and configuration of the loop (ex. 4' x 8'). Then ty-wrap the loop to the top of the PVC frame. This stabilizes the loop during the pour and separates it from the rebar.



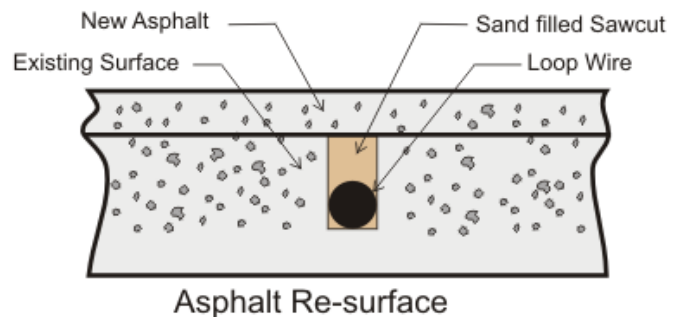
### SAW CUT EXISTING SURFACE

Cut 1" deep into the existing surface, place a 45° cut at the corners to prevent sharp edges from damaging the loop wire. Notch out for the "T" connection where the lead wire connects to the loop. Remove all debris from the finished cut with compressed air. Place the loop into the saw cut. Place backer material into the saw cut over the loop wire and pack tightly. Place a high-quality sealer over the saw cut to seal the surface.



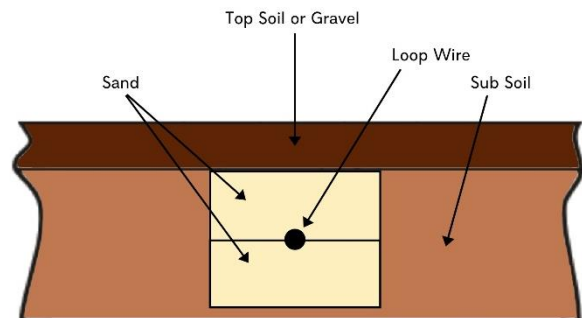
### RESURFACE ASPHALT

Saw cut the existing surface 3/4" deep and place a 45° cut at the corners to prevent sharp edges from damaging the loop wire. Remove all debris from the finished cut with compressed air. Place sand over the loop wire to the surface and pack tightly. Lay new asphalt.



### GRAVEL OR SOIL INSTALLATION

While this is not a recommended installation for most loops, it has been used successfully with proper preparation. Remove gravel or top soil until reaching a stable base. Dig ~6-8" deep by ~6-8" wide. Fill halfway with sand and pack tightly. Place the loop into the trench and finish filling to level with sand. Pack tightly and replace gravel or soil over top.



**TIP:**

Detection height is approximately 70% of the shortest side of the loop.  
For example: detection height for a 4' x 8' loop = 48" x .7 = 33.6"

## Warranty

EMX Industries, Inc. products have a warranty against defects in materials and workmanship for a period of two years from date of sale to our customer.