

PLH PREFORMED LOOP

FOR HIGHWAY APPLICATIONS



Ordering Information Model PLH-XX-XX-QXX



Model PLH-XX-XX-QXX-A also available with Lead-in Cable perpendicular to Loop Cable.

Overview

The Model PLH Preformed Loop is a prefabricated loop / lead-in assembly designed to be overlaid with hot asphalt or embedded in concrete. Each component of the PLH (loop cable, lead-in cable, and splice enclosure) is designed to maximize durability, minimize water penetration, and maintain a flexible form that is easy to install and handle. The low profile loop cable and lead-in cable are 0.360" O.D. to resist the effects of reflective cracking that can occur in asphalt. Wire insulation and cable jackets are constructed with the optimal thickness of Cross-linked Polyethylene (XLPE) necessary to ensure a long, trouble free life. XLPE insulation provides excellent thermal, electrical, and physical properties and is recognized for its outstanding resistance to moisture and chemicals.

- Loop and lead-in cables are flexible for easy handling and installation
- Can be configured to suit any geometry; rectangular, round, or Quadrupole
- Wire insulation and cable jackets are formulated from Cross-linked Polyethylene (XLPE) and will withstand temperatures up to 426° Fahrenheit
- Cables are filled with water block gel to prevent water penetration
- All splice connections are soldered, sealed, and tested
- Splice enclosure is constructed of high impact glass impregnated plastic
- Low profile loop / lead-in cable (0.360" O.D.) minimizes effects of reflective cracking



Reno A&E

Transportation Control Products

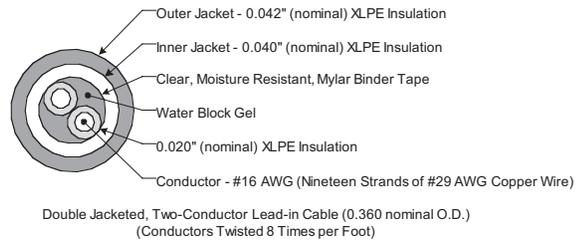
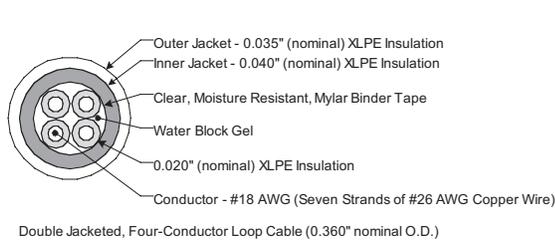
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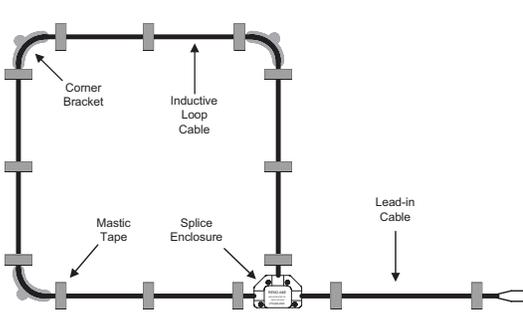
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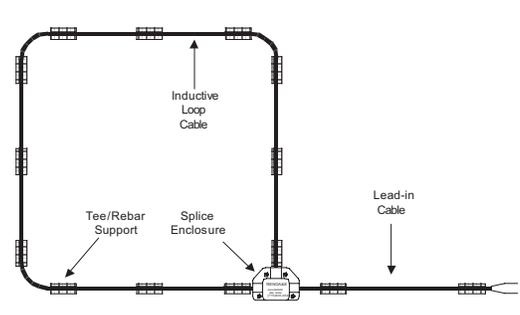
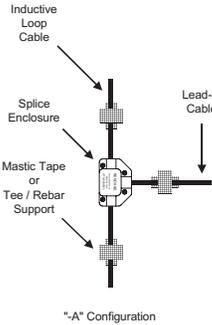
PLH SPECIFICATIONS



PLH INSTALLATION INSTRUCTIONS



Asphalt Overlay



Poured Concrete

Loop Installation - Asphalt Overlay

1. Place the PLH Preformed Loop in the proper position and orientation on the asphalt base lift.
 2. Route the lead-in cable to the desired termination point.
 3. Cut the fiberglass backed mastic tape (included with the PLH) into 2" x 4" or 3" x 4" strips. Use the mastic tape (and optional corner brackets) to hold the loop and lead-in cable in place.
 4. Apply the top lift.
- Note: When applying the top lift, make certain that the loop cable does not get pulled into the augers on the paving machine.

Loop Installation - Poured Concrete

1. Place the PLH Preformed Loop in the proper position and orientation on top of the concrete reinforcing steel.
2. Route the lead-in cable to the desired termination point.
3. Cut an appropriate number of 1/2" poly tees as shown in Figure 1. Cut an equal number of lengths of 3/8" rebar.
4. Use the tees, rebar, and nylon cable ties to hold the loop cable in place at least 2" above the concrete reinforcing steel. See Figure 2. The lead-in cable can be tied directly to the concrete reinforcing steel.
5. Pour the concrete making certain not to disturb the loop cable.

Notes:

1. The rebar should be cut long enough to allow it to be driven firmly into the ground to hold the tee securely at the correct height above the concrete reinforcing steel.
2. Spacing of the Tee / rebar supports should be such that no more than 2 feet of cable is unsupported.
3. If the thickness of the concrete slab and/or the depth of the reinforcing steel below the top of the slab is such that the minimum dimensions shown in Figure 2 cannot be achieved, contact Technical Support at Reno A&E for guidance.

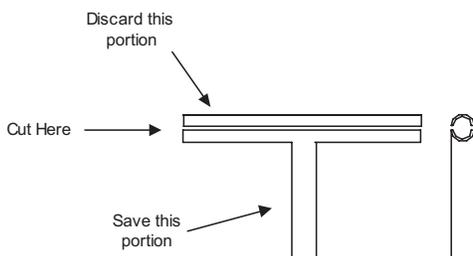


Figure 1

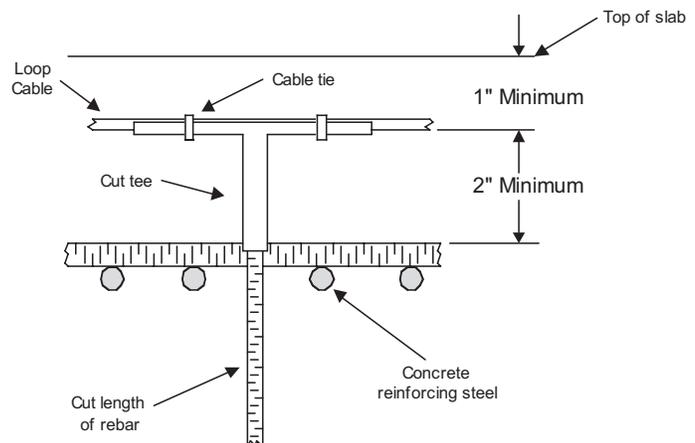


Figure 2