Inductive Loop Detectors

The most popular detection system since the 1960's…Why?

- **Operates independent of the environment**
- **Precise and predictable areas can be defined for detection zones**
- **The most accurate technology**
- **All other systems are compared to loops**
- **Detects what is desired: *licensed vehicles***

Inductive Loop Detectors

The most popular detection system since the 1960's…Why?

- **The most reliable technology**
- **Holds presence of stationary vehicles**
- **No false calls from blowing debris or animals**
- **Simple setup for reliable detection**
- **Cost effective**

PLH

Preformed Loop Highway

Why Preformed Loops?

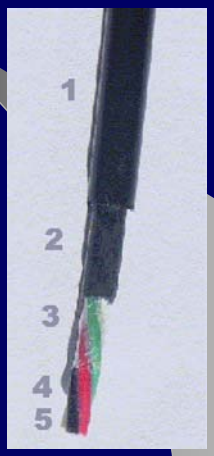
- Long term reliability
- Five layers of protection
- The most accurate sensor
- Maintains integrity for the life of the pavement

Why Preformed Loops?

- Stronger than standard loops
- Manufactured in a controlled environment
- Easy to handle, ship, and install
- Cost effective

Loop Cable has Five Layers of Protection

1) .035” XLPE outer jacket
2) .040” XLPE inner jacket
3) Moisture resistant Mylar binder
4) Water block gel
5) .020” XLPE conductor insulation



Cross-linked polyethylene has a melting point of 426°F

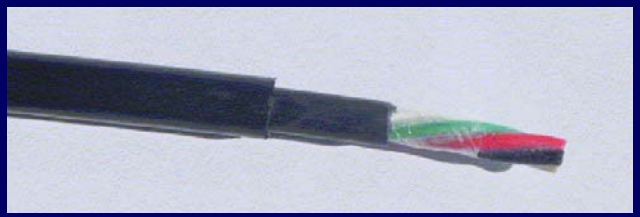
Lead-in Construction

- .042” XLPE outer jacket
- .040” XLPE inner jacket
- Moisture resistant Mylar binder
- Water block gel
- .020” XLPE conductor insulation
- 2 conductor, twisted pair (#16 AWG)

Cross-linked polyethylene has a melting point of 426°F

The Benefits of a Double Jacket

- Outer jacket relieves stress on the inner jacket and cable
- Minor nicks and cuts in the outer jacket will *not* reflect into the second jacket



Increased Pavement Life

- **No saw cut**
  - Designed to be paved over for asphalt applications
  - Designed to be placed in concrete pours
- **Low profile reduces reflective cracking**
- **Better water seal**

Splice Box Construction

- **High impact glass impregnated plastic**
- **Minimum material thickness 0.25”**

Splice Box Assembly

- All splices are
  - Soldered
  - Cleaned
  - Sealed
- Splice cavity is flooded with gel water block
- Soaked in water for three days
- Must exceed 1000 megs when tested

Asphalt Installation

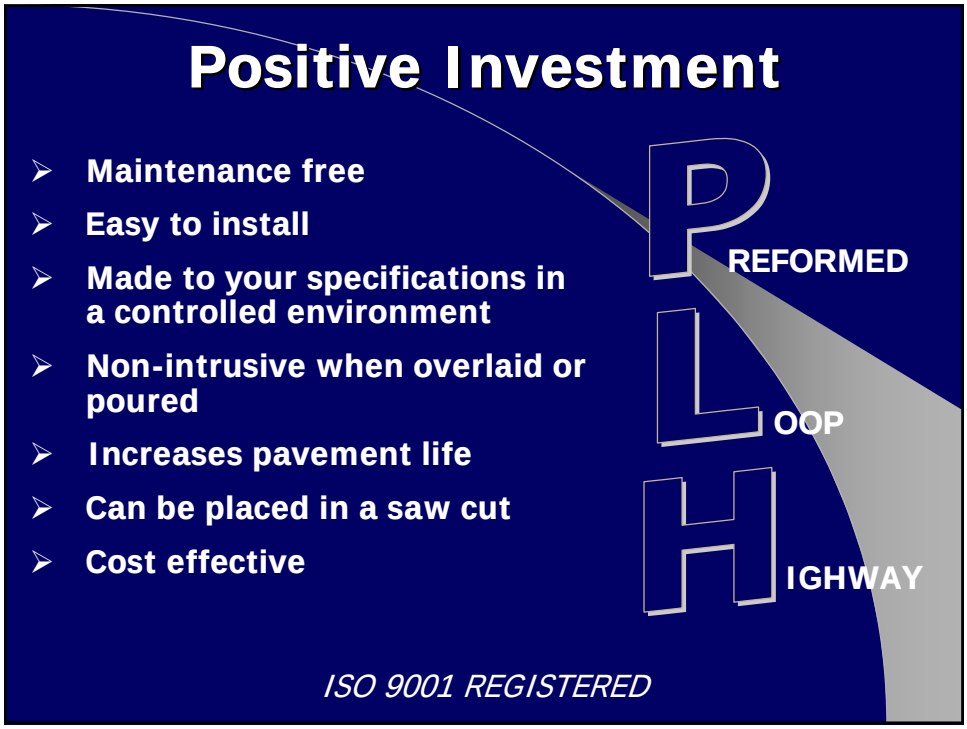
- Place PLH in proper position
- Route the lead-in cable
- Use fiberglass backed mastic tape to hold cable in place
- Apply overlay

Note: Tracks will not damage Lead-in Cable

Concrete Installation

- Place PLH in position over the concrete reinforcing steel
- Route the lead-in cable
- Use rebar and tees to hold loop in place
- Tie lead-in directly to the concrete reinforcing steel
- Pour concrete

Cost Effective


Positive Investment
Maintenance free
Easy to install
Made to your specifications in a controlled environment
Non-intrusive when overlaid or poured
Increases pavement life
Can be placed in a saw cut
Cost effective
PREFORMED
LOOP
HIGHWAY
ISO 9001 REGISTERED