

PREFORMED VEHICLE DETECTION LOOP FOR SAW CUT INSTALLATION

Designed for vehicle detection with:

- **BARRIER GATES**
- **OVERHEAD DOORS**
- **GATE OPERATORS**
- **TRAFFIC SIGNALS**
- **ARMING DEVICES**
- **VEHICLE COUNTS**



✓ HELPS PREVENT CALL BACKS

Wires will not float to the top of the saw cut while the sealer is curing. Preventing wire exposure and potential premature loop failure.

✓ SAVES MATERIAL

Backer Rod is not required. The loop wires will remain at the bottom of the cut with out assistance. This allows for full encapsulation of the loop wires by the sealer. As a result, a more reliable installation is achieved.

✓ ELIMINATES FALSE SIGNALS

The machine twisted lead-in and a hand wrapped loop (with out splices) ensures a flawless installation.

✓ DURABLE

Up to five turns of PVC or XLP insulation over stranded copper wire.

✓ EASY TO INSTALL

Preformed and wrapped in a glass filament tape for ease of installation.

✓ NO SPLICES

One continuous wire through loop turns and lead.

✓ LABOR SAVING

Install the 18Ga PVC loop in a 1/8" X 1" saw cut in minutes. XLP insulation may require a larger cut but installation time is still just the same.

✓ FLEXIBLE

Turns up to 90° are easily achieved even in cold weather.

A wide selection of Loop sizes and lead-in length are in stock and ready to ship.

| | | | |
|-----------|----------|----------|----------|
| 2' x 6' | 4' x 8' | 6' x 12' | 6' x 18' |
| 2.5' x 6' | 4' x 9' | 6' x 13' | 6' x 19' |
| 3' x 6' | 4' x 10' | 6' x 14' | 6' x 20' |
| 3.5' x 6' | 4' x 11' | 6' x 15' | 6' x 22' |
| 4' x 6' | 4' x 12' | 6' x 15' | 6' x 24' |
| 4' x 7' | 5' x 12' | 6' x 17' | 6' x 26' |

Available in 18 awg or 14 awg, (XLP) Cross-Linked Polyethylene Jacket.

Standard Non-Spliced Lead-in Lengths are: 20'-30'- 50'- 75' & 100'

Custom size loop available upon request.

Dimensional Specifications for Preformed Saw Cut style Loops:

| XLP-E 18 Gauge | | |
|----------------|-------|--------|
| Width | Turns | Height |
| 0.125" | 3 | 0.340" |
| | 4 | 0.490" |
| | 5 | 0.555" |

| XLP-E 14 Gauge | | |
|----------------|-------|--------|
| Width | Turns | Height |
| 0.140" | 3 | 0.424" |
| | 4 | 0.564" |
| | 5 | 0.704" |

LIS Inc.

800-964-0711 Fax 800-964-6549

Preformed Saw Cut Style Inductive Loop Specifications, 18 AGW XLP (XHHW)

Preformed Saw Cut style vehicle detector loop shall meet, at minimum, the following requirements:

1. The number of loop turns shall be as per the manufacturer's specifications and/or industry standards, unless otherwise specified, using loop cable specified in item 1a.

- 1a. Cable: 18 AGW 16strand copper wire, insulated with a Cross-Linked Polyethylene jacket. Resistant to: Oils, Gasoline, Acids, Ozone, Alkalines and Abrasion
Approvals: UL 3173, E132792, CSA CL 1251, LL92693
The finished wire will meet all test requirements as specified by ICEA S-66-524, NEMA WC-7 and UL-44

| | |
|-------------------------------|-------------------------------------|
| Voltage Rating: | 600 Volts (rms), |
| Conductor Maximum Resistance: | 4.81 ohms / 1000 ft. at 20°C |
| Insulation Resistance: | 1500 megohms for 1000 ft. (minimum) |
| Insulation Wall Thickness: | 0.03125 in. |
| Finished O.D. | 0.108 in. ± 0.00025 in. |
| Conductor Elongation: | 15% |
| Insulation Elongation: | 250% (minimum) |
| Conductor Tensile Strength: | 4000 lbf/in ² (minimum) |
| Insulation Tensile Strength: | 1500 lbf/in ² (minimum) |
| Service Temperature: | -58° to 200° C |

2. X Number of turns forming the loop and lead shall be one continuous cable. Splices are not Permitted between the loop and the lead.
3. X Number of turns shall be stacked and held tightly in a vertical plane with glass filament tape, or approved equal, to maintain integrity of the loop turns.
4. The assembled inductive loop shall have a maximum cross section dimension of 0.555" X 0.125"
5. The lead cables shall to be twisted 18 turns per foot, (minimum).
6. The loop inductance operating range shall be between 30 and 750 µh.
7. The installation shall be done as per manufacturer's specifications.
8. Loop sealant shall be LIS part # Pro-Seal-6006 or Q-Seal 290 sealant or approved equal.
9. The Saw Cut style loop shall be LIS part # X-NLXX-18/XX, or approved equal. (Phone 903-675-5578)

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Preformed Saw Cut Style Inductive Loop Specifications, 14 AGW XLP (XHHW)

Preformed Saw Cut style vehicle detector loop shall meet, at minimum, the following requirements:

1. The number of loop turns shall be as per the manufacturer's specifications and/or industry standards, unless otherwise specified, using loop cable specified in item 1a.
- 1a. Cable: 14 AGW 7strand / 0.0242 copper wire, insulated with a Cross-Linked Polyethylene jacket. Resistant to: Oils, Gasoline, Acids, Ozone, Alkalines and Abrasion
Approvals: UL 3173, E132792, CSA CL 1251, LL92693
The finished wire will meet all test requirements as specified by ICEA S-66-524, NEMA WC-7 and UL-44

| | |
|-------------------------------|-------------------------------------|
| Voltage Rating: | 600 Volts (rms), |
| Conductor Maximum Resistance: | 4.81 ohms / 1000 ft. at 20°C |
| Insulation Resistance: | 1500 megohms for 1000 ft. (minimum) |
| Insulation Wall Thickness: | 0.0325 in. |
| Finished O.D. | 0.140 in. ± 0.00025 in. |
| Conductor Elongation: | 15% |
| Insulation Elongation: | 250% (minimum) |
| Conductor Tensile Strength: | 5800 lbf/in ² (minimum) |
| Insulation Tensile Strength: | 1800 lbf/in ² (minimum) |
| Water Absorption over 24 Hrs. | 0.01% |
| Service Temperature: | -58° to 200° C |

5. X Number of turns forming the loop and lead shall be one continuous cable. Splices are not Permitted between the loop and the lead.
6. X Number of turns shall be stacked and held tightly in a vertical plane with glass filament tape, or approved equal, to maintain integrity of the loop turns.
7. The assembled inductive loop shall have a maximum cross section dimension of 0.704" X 0.140"
5. The lead cables shall to be twisted 18 turns per foot, (minimum).
6. The loop inductance operating range shall be between 30 and 750 µh.
7. The installation shall be done as per manufacturer's specifications.
9. Loop sealant shall be LIS part # Pro-Seal-6006 or Q-Seal 290 sealant or approved equal.
9. The Saw Cut style loop shall be LIS part # X-NLXX-14/XX, or approved equal. (Phone 903-675-5578)

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