Preformed Detector Loops and Installation Drawing



Premanufactured Rigid Detector Loop

Orange Traffic

Premanufactured Rigid Detector Loop



Description

Vehicle intersection detector loop

Specifications

Structure

- Manufactured with a polyvinyl chloride (PVC) conduit measuring 12.7 or 19 mm (1/2 or 3/4 in.) in diameter
- Forms a square or rectangular parallelogram (dimensions as per specifications)
- Manufactured from a single piece with ends connected by a T fitting
- Conduit resistant to solvents, alkaline substances, mineral acids and other petroleum-based products

Wiring

- RWU-90-X-LINK type 14 AWG gauge single-conductor cable inserted in the conduit
- Cable circling the loop 3, 4 or 5 times (depending on specifications) and includes two 14 tr/m twisted input wires along its entire length
- No splices
- Negative polarity clearly identified at the end of the counter-clockwise wire (if the loop is installed upside down [top of the T fitting pointing downward], the positive polarity is identified)

Watertightness

- Interior of the conduit filled by injection with a dual low-viscosity polyurethane waterproofing compound (type SAE600L)
- Fills the entire volume of the loop (no air pockets)
- Becomes solid while maintaining its flexibility below -45°C and above +145°C

Electrical characteristics

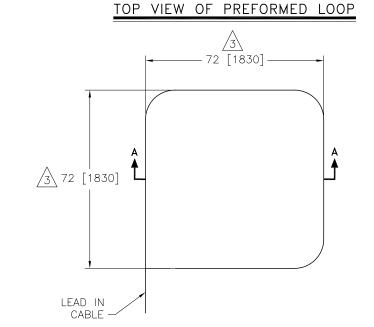
- Total inductance for a 1.8 x 1.8 m loop with a 20-m input wire: 5 to 35 μ H per 5-m section (according to specifications)
- Minimum electrical insulation: 100,000 M Ω at 1,000 VDC

• Maximum resistivity: 1.25 Ω

For more information: 1 800 363-5913

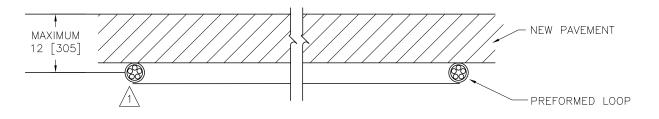
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LOOP CABLE ROUTING DETAILS SHOULDER TRAFFIC LANE -PULL BOX-LEAD CABLE IN PAVEMENT -[25] CONDUIT LEAD-IN CABLE ALL CONNECTIONS BETWEEN SENSORS AND LEAD CABLES MUST BE LOCATED IN THE JUNCTION BOX HOMERUN CABLE (490075) THEN SOLDERED AND SEALED FOR WATERPROOFING.



SECTION A-A

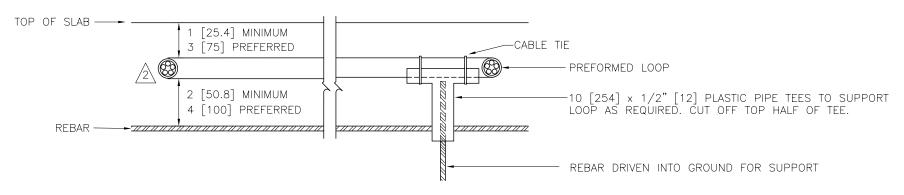
PREFORMED LOOP IN JOINT CONCRETE OR ASPHALT PAVEMENT DETAIL



SECTION A-A

PREFORMED LOOP IN REINFORCED CONCRETE PAVEMENT DETAIL

DWN/DSN APPR. APPR.



DATE

ORIGINAL

NOTES:

1 PLACE PREFORMED LOOP IN BASE GRANULAR AND AT A MINIMUM OF 24" [610] HORIZONTALLY FROM DOWEL JOINT OR IN THE BASE LIFT OF ASPHALT.

PREFORMED LOOP MUST BE INSTALLED ABOVE REBAR AND WITH SUFFICIENT CONCRETE COVER. $\stackrel{\textstyle \checkmark}{\cancel{3}}$ loop size and number of turns as specified on site layout and in accordance

4 FOLLOW PREFORMED LOOP MANUFACTURERS INSTALLATION INSTRUCTIONS & GUIDELINES.

5 PLUG CONDUIT OPENING.

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	В	UPDATE CABLE ROUTING DETAILS AS PER REDLINES - ECO-2010.	JGi/MLo			MAR 10/11	TO I
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INTERNATIONAL ROAD DYNAMICS INC. SASKATOON SASKATCHEWAN CANADA 0 DWG. TITLE:

INSTALLATION PREFORMED VEHICLE DETECTION LOOPS NOT TO SCALE

SIZE: DWG. No. 81300104 DIMENSIONS IN: INCHES [mm] CAD FILE: 81300104.DWG SHEET 1 OF 1

REV. DESCRIPTION