



- [Application](#)
- [Advantages](#)
- [Specifications](#)

MODEL C (CONCRETE OVERLAY)

APPLICATION

Model C Loop Detectors are designed for installation into concrete, concrete overlay or bridgedecks.

ADVANTAGES

Can be laid down on rebar without spacers (if applicable)
Wires sealed in rubber asphalt filled polypropylene conduit
Completely tested prior to shipment
No splices
Shipped ready to install
Patented expansion / contraction joints
Direct burial into sub-base or tie down to rebar
Reduced maintenance cost

SPECIFICATIONS

Loops shall be constructed from polypropylene conduit with 3/8" I.D. (9.5 mm) and 5/8" O.D (16 mm). Conduit shall be filled with hot rubberized asphalt which allows the loop to remain flexible once cooled, prevent incursion of moisture and set the turns of wire firmly in place.

Loops shall have 5" (13cm) expansion / contraction joints at intervals along the loop to allow for movement of the pavement and to prevent breakage of the wire and / or conduit due to this movement. Each expansion / contraction joint shall have a 9 inch (23cm) schedule 80 Polypropylene cover slide to be placed over the joint.

The encapsulated copper loop wire shall be 16 gauge TFFN or THHN stranded single conductor wire with PVC insulation and nylon exterior jacket.

(other gauges employed where called for).

Loops shall have 5 turns. (additional or less turns where called for)

Loop shall have one continuous wire through the loop head and lead-in to prevent loop malfunctions due to splicing.

Lead-in wire shall be encased in a non-conductive 250 psi (1600 Kpa) flex hose constructed with a seamless extruded polyester fiber braid reinforcement and a non-conductive, seamless extruded urethane non-perforated jacket. Fill lead-in hose completely with hot rubberized asphalt. Twist wires in all lead-ins a minimum of three turns per foot (30cm) for the entire length of the lead-in. Attach lead-ins to loop heads with a schedule 80 CPVC tee.