



870 McClaine Street PO Box 890 Silverton, Oregon 97381 (503)873-5794 Fax (503)873-3774

## **PREFORMED LOOP SPECIFICATION Model H50**

### **GENERAL:**

Prefomed detector loops shall be factory assembled. Homeruns and interconnects shall be pre-wired and shall be an integral part of the loop assembly. The loop configurations and homerun lengths shall be assembled for the specific application.

All materials used to protect the wire in the preformed loop shall be flexible and shall have properties which will withstand the temperatures and pressure of paving applicators and hot melt sealants without melting or cracking.

### **SPECIFICATION:**

The loop and homerun shall be constructed using nylon reinforced hydraulic hose, ½" O.D. Hose for the loop and homerun shall be one piece. No joints or splices shall be allowed in the hose except where necessary to connect the homeruns or interconnects to the loops. This will allow maximum wire protection and loop system strength.

Hose tee connections shall be high temperature synthetic rubber. The tee shall be of proper size to attach directly to the hose to minimize glue joints. The tee shall have the same flexible properties as the hose to insure that the assembly can conform to pavement and shifting without cracking or breaking.

The wire used shall be 18 awg. TFFN copper stranded, standard. The number of turns in the loop shall be application specific. Homerun wire pairs shall be twisted. No wire splices will be allowed in the preformed loop assembly.

The loop and homeruns shall be filled and sealed with a flexible sealant to insure complete moisture blockage. The material shall be two part polyurethane applied at ambient temperature to avoid insulation damage. The material when set up shall not soften in warm temperatures nor get brittle in cold temperatures. This insures proper wire protection at all times.

Loops and wire shall be marked as necessary for the job.