<u>ALARMLINE HEAT SENSING CABLE</u>

Electric Scientific Company

Alarmline Cable is a heat sensing cable that provides continuous heat detection along the entire cable length. Alarmline cable is unique because it can be temperature adjusted and will average the heat build up over a larger area to provide earlier fire warning. Alarmline provides superior detection of conveyor belts, large storage areas, cold storage and many industrial applications.

<u>ALARMLINE HEAT SENSING CABLE FEATURES:</u>

- **Sensitive -** The cable does not have a fixed temperature to alarm. The more footage of cable sensing heat, the lower temperature it will alarm at. A traveling conveyor fire or a high bay area fire will heat up more cable for earlier alarm.

- **Adjustable -** The alarm temperature can be adjusted for each specific area and from winter to summer conditions.

- **Pre-Alarm –** Alarmline cable is ran from an intelligent module to allow setting of the alarm temperature and a "pre-alarm" can be turned on to warn of a rising temperature condition.

- **Testing -** The cable is installed with a test box at the end of the run so we can actually heat up the box to ensure the cable alarms at the selected temperature. This one test is a true functional test of the complete zone. The test box for a conveyor belt system would be at the end of the belt. For a large storage building with high ceilings, the test box would be installed at an accessible height so that you would never have to get way up at the ceiling for testing.

- **Reusable -** The cable is resettable and reusable unless it is exposed to temperatures above 390 degrees F. If apiece is damaged, just the damaged segment is replaced.

- **No False Alarms -** If the cable is cut, shorted, opened or grounded it will give a trouble notification not an alarm.

- **Wiring and Maintenance -** Wire to the detected area or between two areas can be by standard wire. Alarmline Cable can be spliced to standard wire and then convert back to cable. If the cable has to be installed in an area that may hinder conveyor belt maintenance, junction boxes can be installed anywhere to facilitate easy cable removal.

- **Durable -** Alarmline Cable has an inner PVC coating and then your choice of a second layer of Nylon sheathing, Bronze or Stainless braiding.

Alarm Example – An example of how Alarmline averages the temperature over a length of the cable to alarm at a lower temperature when more cable senses a warming condition. An example for a conveyor belt or high bay storage area requires 500 feet of Alarmline Cable. The warmest ambient conditions expected are 80 degrees F in the winter and 100 F in the summer:

Module Setting ----------------	1	4	8	11
500' of cable alarms at ------	90 F	112 F	140 F	163 F
100' of cable alarms at ------	116 F	138 F	170 F	202 F
50' of cable alarms at -------	124 F	150 F	187 F	216 F
15' of cable alarms at -------	144 F	170 F	210 F	250 F

In this example, for the most sensitive detection Alarmline could be set at 1 in the winter and 4 in the summer.