



Product Information & Specification

The Flexiguard Sensor Cable is the most sensitive and accurate sensor cable available on the market today. It has been developed by APS for the sole function of a sensor cable for use in a security environment.

There are other sensor cables on the market such as magnetic cable sensors and fibre optic sensor cables. Both of these types of sensors suffer from a major flaw in their operation. This flaw is caused by their construction. Both types of sensor cable work by having either loose wires in a magnetic field or loose fibres in an outer jacket which have to move or vibrate to generate a signal. This is the worst type of operation you could wish for on an external fence. As the fence moves in the wind so do the loose wires or fibre optics generating a totally unacceptable amount of false alarms, just what you do not want from a sensor cable.

The APS Ltd Flexiguard Sensor Cable has a superior Solid State construction. It has no moving parts. It can move about in the wind and will not generate any false signals. That is why the Flexiguard Sensor Cable gives such an outstanding performance both in terms of false activation and detection.



The Flexiguard Sensor Cable operates by means of the TRIBOELECTRIC and PIEZO effects. This gives the most accurate signals available as the signals are generated only by an attack on the fence and not by the fence moving in the wind.

If you listen to the audio output from the cable it is incredibly clear, as all you are hearing is the fence and not the unwanted noise of wire or fibres rattling around inside the sensor cable.

The unique construction of the Flexiguard Sensor Cable, in particular the use of POLYTETRAFLUOROETHYLENE (TEFLON) allows it to operate at both extremes of the temperature scale. Teflon can withstand up to 200°C. An elevated temperature range of operation is essential in many continents such as the Middle East, Far East and Tropics. The Flexiguard Sensor Cable can withstand direct sunlight for many, many years without any loss of performance, which does happen with other sensor cables.

FLEXIGUARD

Flexiguard™ Sensor Cable

For added mechanical protection the Flexiguard Sensor Cable is available in a Roundlock Stainless Steel Flexible Conduit. The Roundlock construction gives an incredibly strong conduit while maintaining great flexibility. It is extremely discrete, being only 6mm in diameter. Its small size also makes it very easy to install.



Cable Type	2 Conductor Coaxial Sensor
Colour	Black
Detection	Able to detect movement as small as one thirty nine millionth of an inch
Half life sensitivity	40 years
Outside diameter	2.8mm
Maximum zone length	300 metres indoors
Sensitivity	Equal over entire length
Repair method	EMC Screened jointing box, Type FS420
Supervision	Constant Impedance Monitoring. Tamper alarm is activated by disconnection, cutting or shorting.
Operating Temperature	-40°C to +85°C
Attachment	Ultra-violet resistant cable ties, type FS400 or plastic extrusion type FS407