

### Product Specification



- ◆ High compatibility
- ◆ High reliability
- ◆ Anti-interference
- ◆ Prevent false alarm

### Product Overview

XW1100A Flat water sense cable is flat design with small volume and high flexibility. It can be connected with most of the leak alarm host and form a leak detection system with high detection sensitivity, rapid and reliable response. The sense cable consists of two light high-density polyethylene wires tightly embedded in the parallel structure framework, which has strong corrosion resistance and wear resistance.

### Application & Features

#### Application

- IDC
- Data Centre
- Library
- Museum
- Warehouse

#### Features

- Parallel structure design can not only reduce cable volume, but also reduce environmental electromagnetic interference and false alarm rate.
- Two core wires design based on the principle of

short circuit which can be used with Xiangwei non-locating leak detectors as well as other brands.(Zone type leak detection system)

- Flat structure make the cable thickness to be very small, which can save vertical space. Sense cable and the required accessories are packaged to greatly enhance its waterproof performance. When installing, only need to lay sense cable along the monitoring area.
- Flexible for installation in complex and bending pipelines

## Technical Data

Cable Size	7.0mm*2.0mm
External resistance of cable conductor	$\leq 0.2\Omega/\text{m}$
Cable weight	28g/m $\pm$ 2 g/m
Cable color(Central axis)	Yellow
Material(Central axis)	PVC
Operating temperature	-20°C~80°C
Fire resistance	V0

## Product Selection

Part number	Description
XW1100A-3m	3 meter non-locating leak sense cable
XW1100A-5m	5 meter non-locating leak sense cable
XW1100A-10m	10 meter non-locating leak sense cable
Note: Length can be customized according to the requirements	

## Operation Principle

When the liquid contact with the sense cable, the inner core wires of two sense wires are conductive in contact with liquid, forming a circuit, leak detector detects the leakage, send an alarm signal.

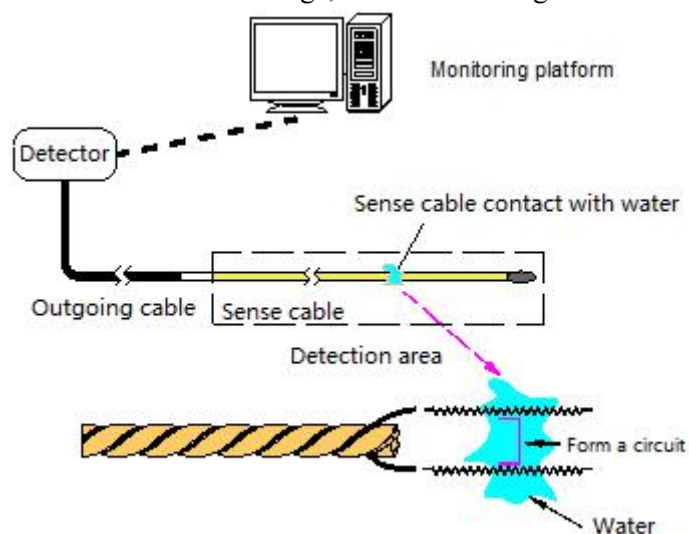


FIG. 1 Schematic diagram of operation principle

## Installation

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- ◆ Each XW1100A sense cable needs outgoing cable for easy to connecting with the detector quickly and reliably. (Sense cable with plug needs to purchase 3 meter outgoing cable and termination end separately; Sense cable without plug needs 2 meter outgoing cable, which has been connected with sense cable before delivery)



Split sense cable outgoing cable (purchase separately)



Fixed sense cable (connected before delivery)

- ◆ Special installation adhesive tape is used to fix cables on the flat surface to ensure accurate and reliable cable detection.
- ◆ Installation accessories (terminal end and jumper cables, etc.) can connect multiple sense cable together to form a complete detection circuit.

## Notices

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- ◆ The area where the sense cable is laid should avoid electrostatic interference.
- ◆ Sense cables should be kept dry and clean during laying.
- ◆ Avoid contact with metal objects during laying sense cables.
- ◆ Sense cables should not be soaked in dirty water or other chemicals for a long time.
- ◆ Sense cables should be installed close to the ground to maximize contact with leaking fluids.
- ◆ Do not overlap or touch the sense cables in the laying area, otherwise false alarm may be caused.
- ◆ Sense cable should not be laid in the environment of high temperature, high humidity, vibration, corrosive gas and other electronic interference sources.
- ◆ During installation or use of sense cables, do not manually extrude and pressure, otherwise the sense cables may be damaged.
- ◆ Sense cable installation should avoid too much tension, the cable and plug connection may get looseness, poor connection and fracture.
- ◆ When conductive materials or water-repellent contaminants (wax, oil, etc.) are dissolved in the leakage liquid, it may not be reusable. In this case, the sense cable needs to be replaced.

## Certificates

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We recommend that you use this manual under the guidance of professional personnel. If the product is damaged by violation operation or a third party force majeure such as fire, flood, lightning and natural disaster, Xiangwei will not assume any responsibility.

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