



XW1100

Water Sensing Cable

Product Specification



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

Product Overview

XW1100 is suitable for all kinds of liquid leakage risk places due to its cost-effective. 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 sensing cable is made of two light high-density polyethylene wires pressed around the central axis of the spiral. Compared with parallel structure wires, the spiral structure can reduce environmental electromagnetic interference and false alarm rate, and greatly improve the strength and service life of the cable.

Application & Features

Application

- IDC
- Data Centre
- Library
- Museum
- Warehouse

Features

- Spiral structure not only reduce the environmental electromagnetic interference and false alarm, but also greatly improve the strength and service life.
- Two core wires design based on the principle of short loop which can be used with Xiangwei non-locating leak controllers as well as other brands.
- Waterproof structure of the plastic plug, convenient cascade and expand detection range. Variety of length meet the needs of detection ranges.
- Flexible for installation in complex and bending pipelines

Technical Data

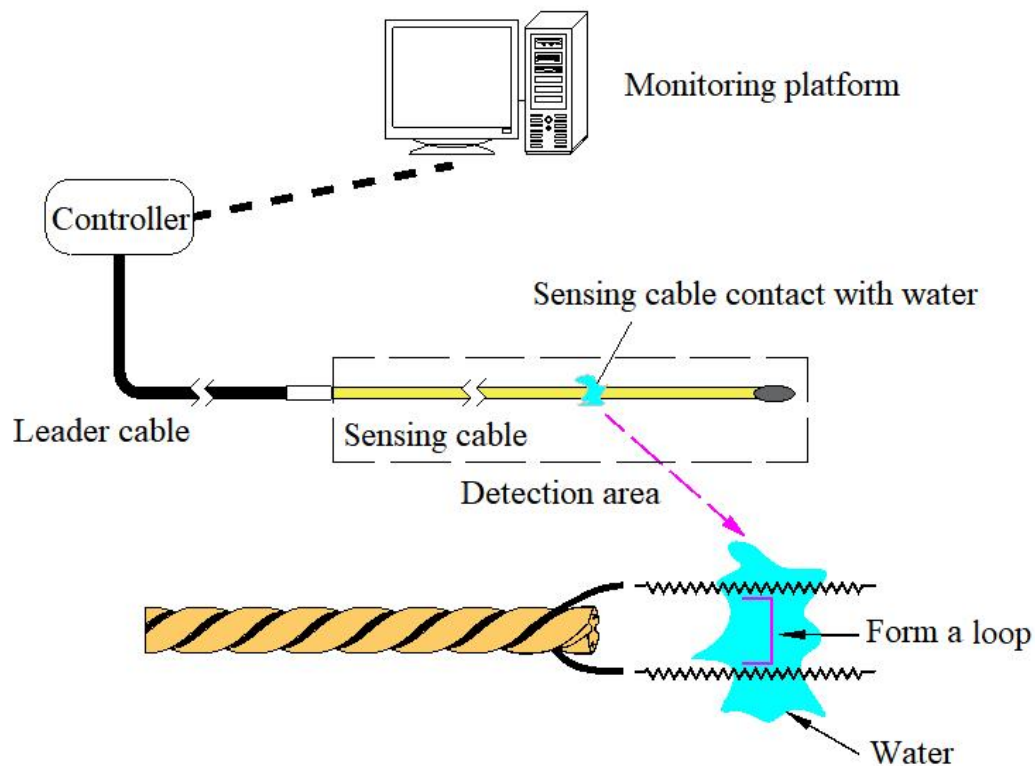
Cable diameter	6.0mm
External resistance of cable conductor	≤0.1Ω/m
Cable weight	28g/m±2 g/m
Cable color(Central axis)	Yellow
Material(Central axis)	PVC
Operating temperature	-20°C~75°C
Fire resistance	V0

Product Selection

Part number	Description
XW1100-3m	3 meter non-locating leak sensing cable
XW1100-5m	5 meter non-locating leak sensing cable
XW1100-10m	10 meter non-locating leak sensing cable
Note: Length can be customized according to the requirements	

Operation Principle

When the water contact with the sensing cable, the inner core wires of two sensing wires are conductive in contact with water, forming a loop, leak controller detects the leakage, send an alarm signal.



Schematic diagram of operation principle

Installation

- ◆ Each XW1100 sensing cable needs leader cable for easy to connecting with the controller quickly and reliably. (Sensing cable with plug needs to purchase 3 meter leader cable and end termination plug separately; Sensing cable without plug needs 2 meter leader cable, which has been connected with sensing cable before delivery)



Split sensing cable leader cable (purchase separately)



Fixed sensing cable (connected before delivery)

- ◆ Special hold down clip is used to fix cables on the flat surface to ensure accurate and reliable cable detection.
- ◆ Installation accessories (end termination plug and jumper cables, etc.) can connect multiple sensing cable together to form a complete detection loop.

Notices

- ◆ The area where the sensing cable is laid should avoid electrostatic interference.
- ◆ Sensing cables should be kept dry and clean during laying.
- ◆ Avoid contact with metal objects during laying sensing cables.
- ◆ Sensing cables should not be soaked in dirty water or other chemicals for a long time.
- ◆ Sensing cables should be installed close to the ground to maximize contact with leaking fluids.
- ◆ Do not overlap or touch the sensing cables in the laying area, otherwise false alarm may be caused.
- ◆ Sensing 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 sensing cables, do not manually extrude and pressure, otherwise the sensing cables may be damaged.
- ◆ Sensing 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 sensing cable needs to be replaced.

Certificates



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.

Shenzhen Xiangwei Measurement and Control Technology Co., LTD

Web: <https://www.szxiangwei.net>

Tel +86 0755-83541693

xw@szxiangwei.net