

Feb 2023

PLFL, water leakage continuous sensing cable For PL500/PL43 liquid detection sensors only

General purpose: extending the sensing capabilities of installed sensors from point sensing to area sensing

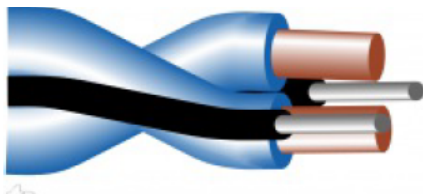
Sensing range: 0-150 meters from sensor and beyond

Recommended typical installation: up to 30 meters from sensor for quick detection after alert.

Horizontal/vertical installation. Cable installation using cable ¼ clamps, every 2 meters (recommended), adhesive tape

Detection: upon sensor programmed delay time

Reset time after detection: Flooding exposure related. From immediate to a few seconds. Wiping of the exposed cable section might be needed for cable resetting



Cabling:

Applications: Fixed or portable installation, indoor applications

General Construction: Two sensing wires cabled with two FR-LSZH insulated wires in a Siamese shape

Outer Jacket Material: FR-LSZH

Outer Diameter: 7.2 mm nom

Weight: 55 kg/km

Design & Materials Detailed Construction:

Sensing wires:

Conductor: Solid TC, 0.61mm

Insulation: PVC, 1.1mm O.D nom

Color code: Black

Power conductors:

Conductor: Stranded TC, 19x0.254mm

Insulation: FR-LSZH, 3.7x7.2mm O.D nom

Cabling: Helical

Cable Lay-Up: Wires around a central member

Total number of conductors: 4

Electrical Properties:

Max DC resistance:
Sensing wires (Copper only): 68 Ω /km@20°C
Power wires: 22 Ω /km@20°C

Performance

Dielectric Strength: 500 V/minute
Min. Insulation Resistance: 500 M Ω •km
Min. Bend Radius for Operation: 40 mm
Max. Operating Temperature: +80 °C
Min. Operating Temperature: -15 °C
UV resistance: Yes

Standards

Applicable Standards: RoHS-2 2011/65/EU
Flammability Rating: IEC 60332-1, UL 1581 VW-1

Sensor interface: cable attached to sensor with screws or extension electrodes

