

Leak Detection Cable

F-30.5000.2

FENWAL®

FEATURES

- Patented Design
- Senses Presence and Location of Liquids
- Non-Conductive Polymer Design Reduces False Alarms
- Thermally Bonded Polymer Coated Carrier
- Quick Dry; Quick Reset
- Strong, Durable and Abrasion Resistant
- 25, 50 and 100 ft. Lengths
- Flexible Cable Allows Tight Bend Radii
- Both Ends of Cable Pre-terminated with Quick-Mating Connectors
- Plenum Rated and UL Listed
- Lies Flat After Installation

DESCRIPTION

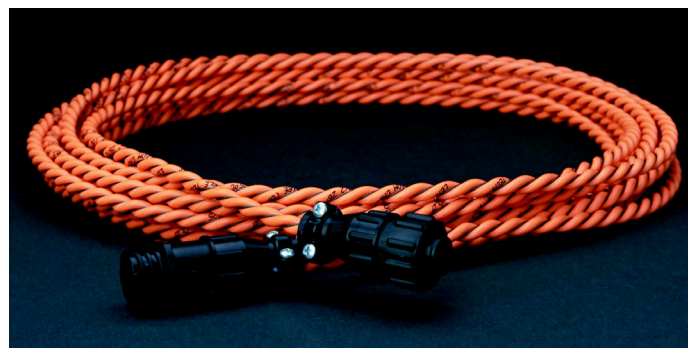
Fenwal's Leak Detection Cable senses and signals the presence of water and conductive fluids. Fenwal's cable is easy to install, resists bends and kinks, and lies flat after installation. The cable is plenum rated and UL Listed for safe operation and can withstand temperatures up to 167°F (75°C).

The ends of the cables terminate with mating connectors; installation and replacement is quick and easy. Cables are available in pre-measured lengths of 25 ft., 50 ft. and 100 ft. (7.6 m, 15.2 m and 30.4 m respectively.) The cables can be connected end to end when extra length is needed subject to a maximum of 5000 ft. (1523.9 m) for the LD5000 Unit and 1000 ft. (304.8 m) per zone for the LDZ4 and LDZ8 controllers. Custom lengths can be provided, and modular cable design allows for expansion of existing water detection systems in the field.

An abrasion resistant polymer core increases the strength of the cable and properly separates the sensing wires from each other. The cable is fast drying and highly flexible, allowing for small bend radii. No conductive polymers are used in the cable's construction. This eliminates shorts that may result from metal, such as spiral wrap conduit or raised floor pedestals, rubbing against the cable.

This cable's two sensing wires and two return wires are configured to determine not only the presence of a fluid, but also its exact location on the floor when using the LD5000 Distance-Read Controller. Cables resist damage from most contaminants.

The cable is compatible with Fenwal's LDZ Series Zone Leak Detection Panels, as well as the Fenwal LD5000 Distance-Read Panels.



CABLE INSTALLATION

1. Install the Fenwal LD5000, LDZ8 or LDZ4 controller per the installation instructions detailed in the respective user guides.
2. Prepare the floor surface by cleaning with denatured alcohol or equivalent cleaner.
3. Unroll the Leak Detection Cable along its intended route ensuring that kinks are not allowed to develop.
4. Secure the Cable to the floor with J-clips. Place one J-clip approximately every 3 ft. (0.9 m) along the length of the Cable. Place one J-clip at each turn or bend of the Cable. Place J-clips every 3 ft. (0.9 m) if a circular pattern is present. If the Cable is installed over an obstruction, clip the Cable on both sides as close to the obstruction as possible. Ensure that there are no gaps between the floor and the Cable. Add clips as required. Avoid placing the Cable directly under or in front of any air unit. If the Cable is placed in front of a down flow air conditioner, the Cable should be placed at least 6 ft. (1.8 m) away. Otherwise, the moisture from the humidifier may cause nuisance false alarm readings. Use one J-clip every 18 in. (500 mm) to keep the Cable firmly affixed to the floor.

Note: The adhesive used to install the J-clips must **NOT** come in contact with the Leak Detection Cable so as to prevent cable contamination and deterioration.

5. Attach the first length of Leak Detection Cable to the Leader Cable from the Controller. Use the Mating Connectors (male connector toward Controller) to join the Leak Detection Cable and the Leader Cable. Secure the End of Line Terminator on the unoccupied end of the last Leak Detection Cable.

Note: It is essential to install the end terminator on the end of the leak detection cable system. If the end terminator is not present, a cable fault will register.

6. Activate the Controller and wait approximately one minute after power has been applied. No alarms should be present. To test the installation, hold a clean, wet cloth or paper towel in contact with the cable to simulate a "leak." Dry the Cable with a clean dry cloth to remove the alarm condition.

INSTALLATION PRECAUTIONS

- Do not use leak detection cable that is damaged or dirty from plaster, spackle or construction debris. If contamination occurs, a mild dishwashing liquid can be used to clean the leak detection cable of many, but not all, contaminants.
- Leak detection cable should not be subjected to contaminants (dirty or greasy areas). Floor must be clean for the cable to function properly and for the J-clips to adhere to the floor surface.
- Tools or heavy objects can do permanent damage when dropped or set on the leak detection cable. Also avoid foot traffic on the cable.
- Do not use any type of adhesive tape to secure the leak detection cable so as to prevent cable contamination and deterioration.
- Do not allow soldering or welding near the cable without providing protection from heat or contaminants. Excessive heat or contamination can deteriorate the cable.

SPECIFICATIONS

Model Numbers:	SC-25, SC-50 and SC-100
Detection:	Water and other conductive fluids
Interface compatibility:	With Zone Leak Detection Panels (LDZ4 and LDZ8) and Distance Read System (LD5000)
Standard Lengths:	25, 50 and 100 feet
Construction:	
Conductors:	4 (2 sensing, 2 return)
Core Material:	Non-conductive Polymer core
Diameter:	Not to exceed 0.25"
Breaking Strength:	Greater than 180 lb.
Sever Resistance:	Greater than 50 lb. with 0.005" blade
Abrasion Resistance:	Greater than 65 cycles per UL 719
Performance:	
Sensing signal:	Less than 10 V peak to peak Less than 60 Hz frequency
Installation features:	Resists bends and kinks Lays flat after installation Dries quickly Small bend radii
Termination:	Quick mating connectors provided on both ends
Approvals/Listings:	Plenum rated to CL2P per UL e162948 and e90625

ORDERING INFORMATION

Part Number	Model Number	Description
30-500002-001	SC-25	25 ft. (7.6 m) Leak Detection Cable with end connectors
30-500002-002	SC-50	50 ft. (15.2 m) Leak Detection Cable with end connectors
30-500002-003	SC-100	100 ft. (30.4 m) Leak Detection Cable with end connectors
30-500004-001	NSC-25	25 ft. (7.6 m) Non-Sensing Cable with end connectors
30-500004-002	NSC-50	50 ft. (15.2 m) Non-Sensing Cable with end connectors
30-500004-003	NSC-100	100 ft. (30.4 m) Non-Sensing Cable with end connectors
30-500006-001	WCC	Weighted Non-Sensing Cable (simulates 50 ft.)
30-500007-001	JC-50	J-Clips, 50 pack
30-500007-002	CT100	Universal Cable Tester
30-500007-004	EOL	Replacement End Terminator
30-500007-005	CCK-LD-SC	Cable Connector Kit

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These instructions do not purport to cover all the details or variations in the equipment described, nor do they provide for every possible contingency to be met in connection with installation, operation and maintenance. All specifications subject to change without notice. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to KIDDE-FENWAL, INC., Ashland, MA 01721.