

# LEAK SENSING CABLE

## PRODUCT DATA SHEET

Model: AT-MDC- 3/7/10/15/20

*(Customized length available)*

**Supports Water , Conductive liquids and PG25  
Instant Leak Detection  
Advance Polymer material**



## Description

The ATYSEN AT-MDC-3/7/10/15/20 is a high-performance water and conductive liquid leak detection cable, designed to accurately detect liquid leakage at any point along its length. When used in conjunction with an ATYSEN-compatible leak detection console module, the system provides real-time visual indication, enabling faster response and opportunity to minimize damage from leakage.

The cable is manufactured using conductive polymerization technology and advanced polymer materials, ensuring excellent mechanical strength, corrosion resistance, and long service life. Its spiral construction with no exposed metal parts allows prolonged use even in harsh or corrosive environments.

## Key Features & Advantages

- **Rapid Leak Detection:** Instantly detects the presence of water or conductive liquid along the entire length of the cable
- **Accurate Leak Location:** When connected to an ATYSEN Sensor Interface unit , leaks are detected and visible indication is shown in Sensor unit
- **Cable Integrity Monitoring:** Detects any break, cut, or open circuit through the cable
- **Fast Reset & Reusability:** Non-absorbent construction allows the cable to be reset within seconds after removal of the liquid
- **Low-Halogen Construction:** Manufactured using low-halogen materials for enhanced fire safety
- **Low Smoke Emission:** Emits smoke with lower optical density and slower dispersion when exposed to high heat, compared to standard cables
- **High Sensitivity:** Immediate response upon contact with water or conductive liquids
- **Uniform Resistance:** Ensures stable and reliable positioning accuracy
- **Robust Spiral Structure:** Enhances mechanical strength and reduces false alarms
- **No Exposed Metal:** Suitable for corrosive and humid environments
- **Low False Alarm Rate:** High resistance to electromagnetic interference

## Typical Applications

- Data Centers & Server Rooms (IDC)
- Communication Base Stations
- Control Rooms & Electrical Panels
- Nuclear Power Plants
- Museums & Archives
- Hospitals & Laboratories
- Warehouses & Commercial Buildings
- Office Buildings and Utility Areas



# Technical Specifications

| Parameter             | Specification                                                       |
|-----------------------|---------------------------------------------------------------------|
| Brand                 | ATYSEN                                                              |
| Model                 | AT-MDC-3/7/10/15/20                                                 |
| Detection Type        | Instant Water leak detection                                        |
| Length                | 3,7,10,15, 20 meters, Custom available                              |
| Detection Principle   | Resistive change based on conductive liquid contact                 |
| Resistance Uniformity | Error ≤ 0.5%                                                        |
| Diameter              | 5.5 mm                                                              |
| Construction          | 4 core, Spiral structure, no exposed metal                          |
| Sensing wire          | Spirally winded 2 wires                                             |
| Continuity wire       | Spirally winded 2 wires                                             |
| Material              | Jacketed conductive polymer                                         |
| Reusability           | Yes                                                                 |
| Corrosion Resistance  | Resistant to slight corrosion                                       |
| Operating Environment | Indoor / semi-harsh industrial environments. Temperature up to 75°C |



# Product Identification Codes

| Product Identification Codes | Description                                                          |
|------------------------------|----------------------------------------------------------------------|
| AT-ALC-C                     | Leak Detection Cable for Water and Conductive liquids, custom length |
| AT-MDC-3                     | 3 meters-Leak Detection Cable for Water and Conductive liquids       |
| AT-MDC-7                     | 7 meters- Leak Detection Cable for Water and Conductive liquids      |
| AT-MDC-10                    | 10 meters- Leak Detection Cable for Water and Conductive liquids     |
| AT-MDC-15                    | 15 meters- Leak Detection Cable for Water and Conductive liquids     |
| AT-MDC-20                    | 20 meters- Leak Detection Cable for Water and Conductive liquids     |

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