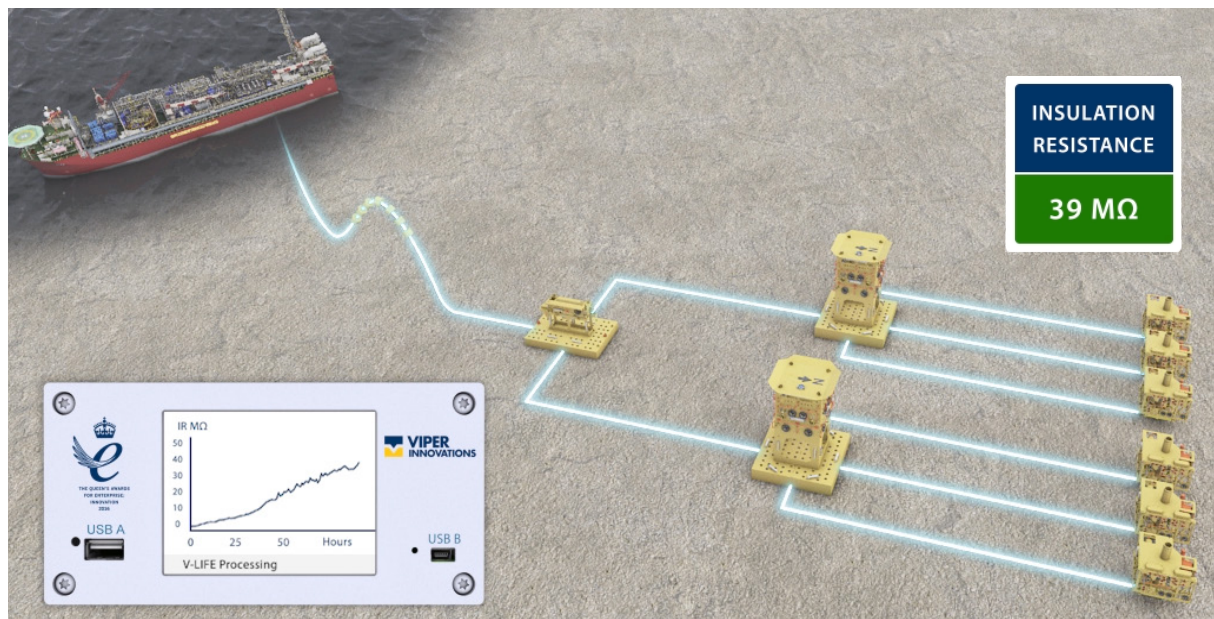


**AWARD WINNING
PRODUCTS AND SERVICES
TAKING OUT COST AND
INCREASING OPERATING
EFFICIENCY**

INTRODUCING V-LIFE INSULATION RESISTANCE RECOVERY

**V-LIFE is a preventative and active 'healing' solution
of low insulation resistance caused by water ingress.**



To see more visit: viperinnovations.com

V-LIFE IS DESIGNED TO RECOVER THE ELECTRICAL INTEGRITY OF SUBSEA CIRCUITS

The Insulation Resistance (IR) Problem

The most common cause of subsea electrical failures is the ingress of water into the cable insulation, which decreases the IR and may produce short circuits or leakage to earth. These faults often lead to loss of power and/or communications to subsea equipment and have the potential to halt production from subsea wells. Historically, subsea fault-finding interventions and the replacement of cables, equipment or even umbilicals have been the only solution to this problem.

The Solution

V-LIFE operates as both a preventative measure and active 'healer' of insulation. The topside installed V-LIFE enabled V-LIM deploys an electro-kinetic and electrochemical process which minimises and mitigates the effect of water ingress into the insulation and increases the IR of the system. No subsea intervention is required.

Additional support is provided as part of the V-LIFE service in the form of condition reports, trend analysis and recommendations.

V-LIFE is currently implemented on control systems supplied by five different OEMs. Widely used by over 30 operators globally, V-LIFE is the leading alternative to subsea interventions.

Key Benefits

- Increases IR without subsea intervention
- Recovers multiple IR failures throughout the system
- Extends the life of failing umbilicals and electrical distribution equipment
- 'Buys time' whilst a new umbilical is procured
- Used as an alternative to installing new, costly and long-lead time umbilicals
- Used to delay early field abandonment
- V-LIFE "finds" the points of water ingress, no diagnostics required.

Key Features

- Compatible with comms on power systems
- Provides all the features of a Line Insulation Monitor including IR measurements and configurable alarms/trips
- Compatible with power and/or signal lines
- A range of installation options to suit all field applications
- Displays IR measurements graphically in real time
- Compatible with single or three phase systems
- Basic control and configuration through a graphical touch screen LCD
- Advanced control and configuration via USB and Ethernet interfaces
- Typically recovers IR from kΩ to MΩ within a few days.

Installing V-LIFE

The V-LIFE passivation signal is enabled by a simple software upgrade of the Viper Innovations V-LIM.





Please contact Viper Innovations for further information on V-LIFE

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