

Silixa's cost-effective and low-risk cable mapping service utilizes the Cable Orientation Beacon (COB), an autonomous downhole sensor, designed to detect the orientation of the downhole fiber optic sensing cables (FOC) to enable oriented perforation of the casing without cable damage.

The COB measures its own orientation using an internal sensor, then transmits that data to the FOC via an acoustic signal which is detected by the intelligent Distributed Acoustic Sensor (iDAS™).

The acoustic signal is analysed at surface and translated back to an orientation in the form of an angular position around the outside of the casing.



- Reduces cost by eliminating the need for tractor services
- Can be installed under a variety of cable clamp types
- Eliminates the need for additional hardware on the casing reducing the cost of fibre installation
- Reduced hardware makes running the casing easier and improves the chances of a successful cement job
- Provides downhole depth calibration points for iDAS

### Specifications

Parameter	Cable Orientation Beacon
Housing length	10 inch
Housing diameter	1 inch
Pressure rating	10 kpsi
Temperature rating	150° C
Angle resolution	10°