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 fibre 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.

**Advantages**

- Reduces cost by eliminating the need for tractored wireline 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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Cable Orientation Beacon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing length</td>
<td>10 inch</td>
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<tr>
<td>Housing diameter</td>
<td>1 inch</td>
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<tr>
<td>Pressure rating</td>
<td>10 kpsi</td>
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<tr>
<td>Temperature rating</td>
<td>150˚ C</td>
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<tr>
<td>Angle resolution</td>
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</tr>
</tbody>
</table>

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