### INGEVITY™ Pacing Leads

**Model numbers**

<table>
<thead>
<tr>
<th>Product</th>
<th>INGEVITY MRI Active</th>
<th>INGEVITY MRI Passive</th>
<th>INGEVITY MRI Passive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model/Length</td>
<td>7740/40 cm</td>
<td>7751/52 cm</td>
<td>7750/45 cm</td>
</tr>
<tr>
<td>Type</td>
<td>Bipolar atrial/ventricular straight</td>
<td>Bipolar ventricular straight</td>
<td>Bipolar atrial pre-formed J</td>
</tr>
<tr>
<td>Fixation</td>
<td>Extendable/retractable helix</td>
<td>Timed</td>
<td>Timed</td>
</tr>
<tr>
<td>Expected number of rotations to fully extend/retract the helix</td>
<td>7 turns with straight stylet</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Recommended</td>
<td>-</td>
<td>8 turns with J stylet</td>
<td>-</td>
</tr>
<tr>
<td>Nominal fixation helix penetration depth</td>
<td>1.8 mm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Steroid</td>
<td>0.91 mg dexamethasone acetate</td>
<td>0.81 mg dexamethasone acetate</td>
<td>0.81 mg dexamethasone acetate</td>
</tr>
<tr>
<td>Distance between electrodes</td>
<td>10.7 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introducer without guide</td>
<td>6F (2.0 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal Diameter Anode Electrode</td>
<td>2.8 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal Diameter Lead body</td>
<td>1.5 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suture sleeve</td>
<td>Radiopaque white silicone rubber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI Conditions of use</td>
<td>Patient is implanted with the ImageReady™ MR Conditional Pacing System™</td>
<td>Full body scan at 1.5T SAR 4W/Kg</td>
<td></td>
</tr>
</tbody>
</table>

**References**

1. 358661-021 INGEVITY MRI Passive PLM EN Europe
2. 358659-022 INGEVITY MRI ExtRetr PLM EN Europe
3. INGEVITY Frequently Asked Questions 042010-959
4. INGEVITY PTM 359069-001 Fineline-Ingevity MRI Technical Guide
5. EMEA MRI Ask the Experts CRM-154809-AA Apr2013
6. Use fluoroscopy markers for verification of full extension/retraction of the helix.

The number of turns to extend or retract the helix may vary based on patient anatomy and implant conditions.

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**IMPROVED IMPLANT EXPERIENCE**
Advanced fixation system designed for precise and stable positioning

**ASSURANCE FIRST**
The only lead with 4 layers of insulation between conductors for long-term reliability

**MORE FREEDOM FOR MRI**
Patients implanted with ImageReady™ MR Conditional pacemakers and INGEVITY™ can receive a full body scan at 1.5T with SAR 4W/Kg

**INGEVITY™**
Is designed from the ground up for:

**PATIENT**
Peace of mind with reliability and long-term performance

**PHYSICIAN**
Ease of use provides more confidence with implant performance

**QUALITY OF LIFE**
Improved quality of life thanks to more freedom in the MRI environment

**ASSURANCE FIRST**
The only lead with 4 layers of insulation between conductors for long-term reliability

**INGEVITY™** has a proprietary coil design – co-axial with redundant insulation – combining the best of existing co-axial and co-radial lead designs

- High fatigue coil design, adopted from FINELINE – 98.6% reliable with 1,3M leads implanted since 2001
- Insulation materials proven effective in lead usage over 20+ years

**IMPROVED IMPLANT EXPERIENCE**
Advanced fixation system designed for precise and stable positioning

**Flexible tip reduces tip pressure and increases tissue adherence**
**Stilet extends beyond the anode for greater tip control – allowing precise lead placement**

**MORE FREEDOM FOR MRI**
Patients implanted with ImageReady™ MR Conditional pacemakers and INGEVITY™ can receive a full body scan at 1.5T with SAR 4W/Kg

**INGEVITY™** is designed for the MRI environment, with higher inductance coils and lower heating than FINELINE

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**LEAD TIP HEATING IN MRI SCAN**

<table>
<thead>
<tr>
<th>Lead Type</th>
<th>Temperature Rise (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINELINE II</td>
<td>2.3°C</td>
</tr>
<tr>
<td>INGEVITY</td>
<td>0.7°C</td>
</tr>
</tbody>
</table>

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* Bench test results provide comparison of leads under identical test conditions. Test results may not be indicative of clinical performance.

**Results reported from lead heating testing in 64MHz (1.5T MRI) RF test environment.**

*** Median measured temperature rise in tissue simulating medium in over 100 exposure conditions.**

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\(^{1}\) To date January 2014

\(^{2}\) BSC DE 2014 Performance Report

\(^{3}\) BSC SD 2013 Product Performance Report