As the original FT switch manufacturer with the longest, most successful history, ABB Flexitest’s unmatched quality is the benchmark for the industry.

With more than 50 years of experience, ABB is the test switch manufacturer with the largest installed base in test switch technology. The perfected design of the ABB Flexitest test switch offers the highest quality, leaving nothing to chance. Due to the robust design and reliability, ABB has never charged for repair or replacement in the past 50 years. ABB Flexitest is the original FT - there is no equivalent.

ABB introduced the FT switch and continues to be the leader in innovation. We were the first to offer:
- Clear covers that allow easier visual check on switch status
- Colored switch handles to simply identify circuits
- Rear extended switches for easier, faster access to wiring points
- 14-pole and 19" wide rack mounted test switch (FT-14 and FT-19R) to save space and installation time
- Patented 3-D white numbering on back of test switch allows for easier identification of poles
- Comprehensive family of test plugs including SafePlug™- current test plug with open CT protection
- Online configurator to create and easily order your own, customized switches - www.ft1switch.com
- 24/7 customer and application engineering support at +1 800 222 1946
- 12-year standard warranty

Below is an overview comparing ABB’s FT Flexitest™ to another vendor’s switch.

<table>
<thead>
<tr>
<th></th>
<th>ABB FT Flexitest™ switch</th>
<th>Other vendor switch</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Experience</td>
<td>50+ years</td>
<td>&lt;25 years</td>
<td>ABB has the largest test switch installed base in North America</td>
</tr>
<tr>
<td>Lifespan</td>
<td>40 years</td>
<td>Not documented</td>
<td></td>
</tr>
<tr>
<td>Certifications</td>
<td>Class 1E RoHS compliant</td>
<td>Meets or exceeds all requirements of ANSI/IEEE standard C37.90 and UL certified</td>
<td>ABB is the only test switch manufacturer with Class 1E Nuclear Plant certification and RoHS compliance</td>
</tr>
<tr>
<td>Terminal Resistance</td>
<td>1 mΩ</td>
<td>2.5 mΩ</td>
<td>The lower the resistance, the lower the point of saturation for the instrument transformer</td>
</tr>
<tr>
<td>Operational Life</td>
<td>Blade coining designed for minimal mechanical wear (resistive to contact welding)</td>
<td>No blade coining Electrical wear - contacts can arc/weld</td>
<td></td>
</tr>
<tr>
<td>Cycle aging - open close for 1000 cycles</td>
<td>Plating shows signs of wear at 350 cycles. No further wear and no flaking</td>
<td>Plating shows signs of wear at 150 cycles and continues wearing out. Significant flaking present</td>
<td>ABB FT Flexitest™ switch is more resistant to wear caused by cycling from open to closed</td>
</tr>
<tr>
<td>Leadtime</td>
<td>1 week or less (48 hours upon request)</td>
<td>15 days</td>
<td></td>
</tr>
</tbody>
</table>
# FT switch technology timeline

- **1964**: Westinghouse creates first FT-switch
- **1965**: Westinghouse offers current shorting spring pole option
- **1975**: Westinghouse moves operations to Coral Springs, FL
- **1978**: Class 1E certified switches available
- **1985**: UL certification obtained
- **1991**: ABB acquires Westinghouse operations in Coral Springs, FL
- **1995**: ABB introduces FT-19R
- **1996**: ABB introduces FT-14 and becomes CSA Certified
- **1997**: ABB utilizes fully automated production line for all switches, patents FT-19RX, and introduces rear-extended FT-1X switch
- **1998**: UL certification obtained
- **2001**: ABB introduces clear covers for FT-1
- **2004**: ABB introduces individual clear covers on FT-19R panel and 12 year product warranty
- **2005**: FT-14 switch introduced and becomes CSA Certified
- **2006**: Front-connected FT-1F and padlock safety feature introduced
- **2007**: Online configuration tool www.ft1switch.com introduced
- **2009**: ABB introduced SafePlug, white raised 3-D numbering on back of switches, and FT labels available for all switch types
- **2010**: ABB introduces clear covers for FT-1
- **2001**: ABB introduces colored switch handles
- **2002**: Front-connected FT-1F and padlock safety feature introduced
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- **2007**: Online configuration tool www.ft1switch.com introduced
- **2009**: ABB introduced SafePlug, white raised 3-D numbering on back of switches, and FT labels available for all switch types
- **2015**: ABB celebrates 50 year anniversary of the FT Flexittest™ switch