ABB enhances its Essailec® range with a new universal adaptor allowing standardized Ø 4 mm test plugs to be connected directly.

This ensures simplified, quick and consistently reliable Essailec® sockets tests.

Essailec® range test solutions at the heart of the ABB terminal blocks portfolio.

Applications
In current and voltage transformers secondary circuits.
For safe and reliable:
- Protection relays testing in control relay panel
- Meters control, calibration and replacement
- Data acquisition for network analysis.

Make the most of our benefits
1. The universal adaptor has been designed to fulfill the specific needs of platforms testing: cabling control, testing, qualification and equipment acceptance. In these particular applications, the power circuits are inactive. The use of the COR... prewired test plugs are therefore no longer mandatory. The FI2/4-FI4 offers a compact, flexible and consistently secure alternative test solution.

2. This new adaptor can be as well exceptionally safely used in active circuits, provided all the precautions are taken.

Simplify your operations and maintenance
- Ø 4 mm test plugs may be inserted directly without the need for extra accessories or tools
- Store and carry this low profile adaptor easily
- Benefit from Ø 4 mm test cords standardized interface between the Essailec® socket and the measurement device
- Flexible: fits both current circuits and voltage circuits.

Guarantee your security
- Operator protection: the universal adaptor is compatible with all the insulated Ø 4mm test plugs available on the market
- Robust: as it has no mobile or flexible parts, it can withstand mishandling.

Optimize maintenance
- Each test circuit is independent: control and replace easily any defective Ø 4mm test cords
- No need for crimping tool.

With Essailec®, benefit from more than 30 years of experience and successful implementations with major worldwide utilities and OEMs.
Instructions

The measurement test lead is connected when the plug is inserted in the Essailec® socket. It automatically opens the circuits (derivation in the measurement patchcord).

The universal adaptor is equipped with Ø 4 mm IP20 test sockets which allow the connection of insulated Ø 4 mm tests leads (per IEC 61010).

Caution

- Connect the prewired test leads prior to the insertion of the Essailec® plug in the socket
- Check the equipment scheme prior to any operation (the universal adaptor does not have coding pins)
- Check that the prewired test leads are correctly inserted in the universal adaptor (the universal adaptor does not have any clamp)
- Check that the prewired test leads do not stress the socket (the universal adaptor does not have any locking feature on the socket).

This device must be used only by qualified and responsible staff fulfilling the rules of safety.

Very high induced voltages are generated if the CT secondary circuits are opened. Equipment and users are then in danger (from electric shocks). Be aware of the potential risks linked to the disconnection of test leads.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$I_i$</td>
<td>8 A</td>
</tr>
<tr>
<td>$I_{max}$</td>
<td>15 A</td>
</tr>
<tr>
<td>Exceptional overload</td>
<td>100 A during 5 sec.</td>
</tr>
<tr>
<td>Working temperature range</td>
<td>-10 °C to +55 °C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>45% at 75%</td>
</tr>
<tr>
<td>Mechanical durability</td>
<td>500 operating cycles</td>
</tr>
<tr>
<td>Resistivity</td>
<td>$&lt; 10$ mΩ</td>
</tr>
</tbody>
</table>

Application example

Electrical wiring for a socket with short-circuited contacts and an universal adaptor

Ordering details

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Order code</th>
<th>Packaging</th>
<th>Weight kg</th>
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</thead>
<tbody>
<tr>
<td>Plugs</td>
<td>FIC-2/4-DIA4</td>
<td>1SNA 167 937 R000</td>
<td>1</td>
<td>0.064</td>
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<tr>
<td>Voltage, Polarity and trip range</td>
<td>FI-2/4-DIA4</td>
<td>1SNA 167 936 R100</td>
<td>1</td>
<td>0.064</td>
</tr>
</tbody>
</table>

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Note

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