

## OSM/IN DECISION

<b>Standard:</b> EN 60898-1:2003 EN 61008-1:2004 EN 61009-1:2004	<b>Sub clause:</b> 9.15 9.14 9.15	<b>Sheet N°:</b> OSM/IN 218B
<b>Subject:</b> Resistance to abnormal heat and to fire (glow-wire test)	<b>Key words:</b> Glow-wire test	<b>Meeting N°:</b> 20 (2010)  <b>Item:</b> 5.1.1 a)
<p><b>Question:</b> How to carry out the glow-wire test?</p> <p><b>Decision:</b> The test has to be carried out on 3 complete devices in accordance with Clauses 4 to 10 of IEC 60695-2-10.</p> <p><b>Each test is made on a separate sample with a different situated point of application of the glow wire. The test is made by applying the glow-wire once.</b></p> <p><b>The glow wire can not be applied directly to terminals area or arc chamber or magnetic tripping device area, where the glow-wire cannot protrude far through the outer surface before touching either relatively big metal parts or even ceramics, which will cool down the glow-wire quickly and in addition limit the amount of insulating material ever getting in touch with the glow-wire. In this situation the parts ensure minimum severity of the test by cooling down the glow-wire and limiting access to the insulating material under test.</b></p> <p>All the details related to each test shall be given in the test report (Picture showing the point of application of the glow wire onto the product, ...).</p> <p><b>If an internal part of insulation material may influences the test with negative result, the test shall be repeated on a new sample. It is allowed to remove the relevant identified internal part(s) of insulation material from a new sample. Then, the glow wire test shall be repeated at the same place on this new sample.</b></p> <p><b>In accordance with the manufacturer, it is acceptable as an alternative method to remove the part under examination in its entirety and test it separately (see IEC 60695-2-11 clause 4)</b></p> <p><b>In this case this should be clearly stated in the test report.</b></p> <p><b>The sample is regarded as having passed the glow-wire test if</b></p> <ul style="list-style-type: none"> <li>– either there is no visible flame and no sustained glowing;</li> <li>– or flames and glowing on the sample extinguish themselves within 30 s after the removal of the glow-wire.</li> </ul> <p><b>There shall be no ignition of the tissue paper or scorching of the pine-wood board.</b></p> <p style="text-align: right;"><i>To be continued</i></p>		

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<p><b>Explanatory notes:</b></p> <p><i>As it is clearly stated in the standard, in case of doubt the test can be repeated on two further samples.</i></p> <p><i>Therefore, in order to avoid any further discussion on the choice of the application point of the glow wire, the test shall be carried out on 3 complete devices.</i></p> <p>The glow wire can not be applied directly to terminals area or arc chamber or magnetic tripping device area, as in this situation, the parts ensure minimum severity of the test by cooling down the glow-wire and limiting access to the insulating material under test.</p> <p><u>Historical background of the document:</u></p> <p>The original text from OSM/IN 218A decision, based on the decision agreed by CLC/TC 23E during the 24<sup>th</sup> meeting held in Brussels on November 12<sup>th</sup>, 2009 (item 9 c), doc. TC23E/Sec0170/RM), has been modified has followed:</p> <p><b>Text modified at CENELEC TC23E-WG1 prEN61009-1 meeting held in Paris on September 1 &amp; 2, 2010.</b></p> <p><b>Text modified at IEC SC23E 23E-WG2 meeting held in Zurich on November 16, 17 &amp; 18, 2010 (see 262 Zurich Minutes).</b></p> <p>This new OSM/IN decision has to be approved by OSM/IN Members and send to TC23E. It will be remained in force until the publication of an Interpretation Sheet and/or a modification of the relevant standards.</p>		