

Test Report

No. 20150907/02

1. Issue

Client: AP Sensing GmbH
Herrenberger Str. 130
D-71034 Böblingen

Producer: AP Sensing GmbH
Herrenberger Str. 130
D-71034 Böblingen

Order of: 11 Mai 2015

Incoming Date : 11 Mai 2015

Content of Order: Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements according to IEC 61034-2: 2005

Test material: AP Sensing S2002A/Steel
color: black, Diameter: 3.8 mm

Sampling: MPA Dresden GmbH was not involved in any selection or sampling procedure.



This test report contains 3 pages.

In case of doubt the German version of test report no. 20150907/02 is valid. 09th July 2015

Publications of test report also in the form of extracts and references to tests for advertising need in every case the written agreement of the test institute. Every page of these test report is stamped with the official seal of the test institute.

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1 Kind of Test

Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements according to IEC 61034-2: 2005.

2 Description of Test Sample

The cable: AP Sensing S2002A/Steel, color: black, Diameter: 3.8 mm, cable imprint: AP Sensing S2002A/Steel BRUGG 671942 EN54-22 group III VdS/UL listed, was delivered by the client to the MPA Dresden GmbH.

3 Test procedure

Three bunches with a length of 1.0 m, consisting of seven cables, were produced from the delivered sample cable ($D_a=3.8$ mm) by employees of the MPA Dresden GmbH. This number was determined with the formula $N_2 = \frac{45}{3D} bundle$ fixed in the test standard for cable outside

diameter $1 < D \leq 5$. The bundle was produced according to test standard. The test sample was conditioned at a relative humidity of $(50 \pm 20)\%$ at $(23 \pm 5)^\circ\text{C}$ for not less than 16 h.

Before beginning of the test, the cables were put into the test chamber according to IEC 61034-1:2005 above the fire source, tied at both ends and mounted at the bracket. Subsequently the ventilator was started to the smoke distribution. Parallel to the ignition of the alcohol the before calibrated photometric system was started. The ambient temperature of test chamber complies with the standard. The temperature inside the test chamber was 25°C at the beginning of the test. All other requirements of the above mentioned test standard was fulfilled.

The test flame has ceased after approx. 31:10 minutes. The test was finished after 40:00 minutes.

The test was carried out at 03rd July 2015.

4 Evaluation of the test

The minimum value of the light transmission was determined with 94.4 % in the 20th test minute. In Annex B of IEC 61034-2:2005 a minimum value of 60 % is recommended for the light transmission. This was met in this test.


5 Test Results

The cable AP Sensing S2002A, Diameter: 3.8 mm, colour: black, passed the test according to IEC 61034-2 2005.


6 Special Comments

This test report is only valid for the described cable (see clause 2). A sample was taken.

Freiberg, 09th July 2015


Dr.-Ing. Meißner
Qualified Engineer
Laboratory Manager




Kuckenburg
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Appendix: pictures of test



fig. 1: test setup



fig. 2: after test

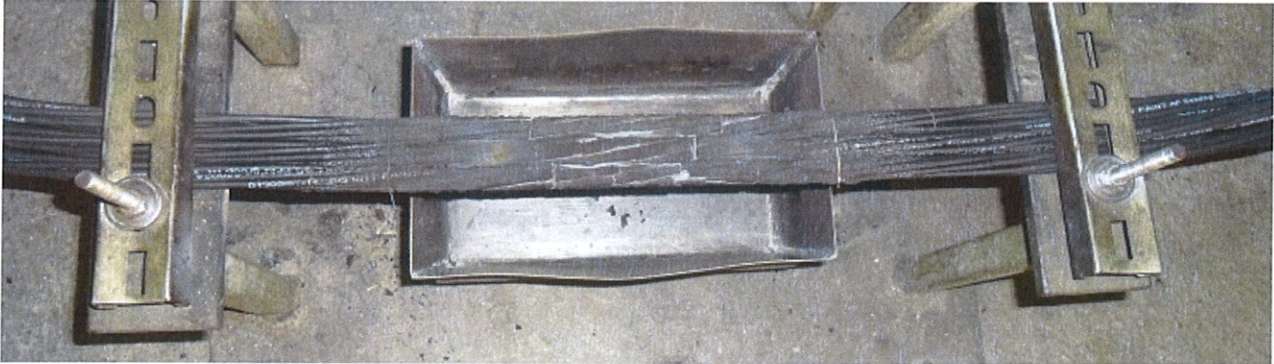


fig. 3 view from above after test

