

Test Report

No. 2011-B-4631/04

1. Issue

Client: HUBER+SUHNER AG
Low Frequency Division
8330 Pfäffikon ZH, Switzerland

Producer: HUBER+SUHNER AG
Low Frequency Division
8330 Pfäffikon ZH, Switzerland

Order of: 24th October 2011

Incoming Date : 25th October 2011

Content of Order: Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements according to DIN EN 61034-2: 2006-03

Test material: Enviroflex-179; Diameter: 2.5 mm;
Item number: 23019104

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

This test report contains 2 pages.



Publications of test reports 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.

MPA Dresden GmbH
Fuchsmühlenweg 6F
09599 Freiberg
Tel. +49(0)3731-20393-0
Fax +49(0)3731-20393110

Geschäftsführer: Thomas Hübler
Steuernummer: 220/114/03011
Amtsgericht Chemnitz HR B 21581
www.mpa-dresden.de
Email info@mpa-dresden.de

Sparkasse Mittelsachsen
Poststraße 1a
09599 Freiberg
Kto. 3115024672
BLZ 870 520 00

USI-IdNr. DE234220069
IBAN DE68 8705 2000 3115 0246 72
BIC WELADED1FGX

1 Kind of Test

Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements according to DIN EN 61034-2: 2006-03.

2 Description of Test Sample

The cable: Enviroflex-179; Diameter: 2.5 mm; Item number: 23019104; Cable imprint: HUBER+SUHNER ENVIROFLEX 179 75 OHM AWM STYLE 3651 538752, was delivered by the client to the MPA Dresden GmbH.

3 Test procedure

Five bunches, consisting of seven cables, was produced from the delivered sample cable ($D_a=5.0$ 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 straightened and conditioned at (23 ± 5) °C for not less than 16 h.

Before beginning of the test, the cable bunches was put into the test chamber according to DIN EN 61034-1 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 agreed with the standard. The temperature inside the test chamber was 26 °C at the beginning of the test. All other requirements of the above mentioned test standard was fulfilled. The burning of fire source was expired after 31:40 test minutes. The test was finished after 40:00 minutes.

The test was carried out at 03rd of November 2011.

4 Evaluation

The minimum value of the light transmission was determined with 75.4 % in the 11th test minute. In the appendix B of the DIN EN 61034-2 were recommended a value for the minimum permissible light transmission of 60 %. This was kept with this examination.

5 Test results

The cable: Enviroflex-179; Diameter: 2.5 mm; Item number: 23019104, has passed the test according to DIN EN 61034-2:2006-03.


6 Special Comments

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

Freiberg, 09th November 2011


Dr.-Ing. Meißner
Qualified Engineer
Manager of the field of fire prevention




Dipl.-Ing. Neubert
Test Engineer