

# CERTIFICATE

KEMA No.: 2111070.01

Issued to:

Applicant:

**ABB B.V. Division AT**  
**Frankeneng 15**  
**6716 AA, Ede**  
**The Netherlands**

Manufacturer/Licensee:

**ABB B.V. Division AT**  
**Frankeneng 15**  
**6716 AA, Ede**  
**The Netherlands**

Product : fasteners for cables or conduits of electrical installations  
Trade name : ABB HAF  
Type/model : ZB2

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

KEMA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard KEMA 51:1999
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 900017

KEMA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 14 November 2007 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.



P. Nabuurs  
Managing director



H.R.M. Barends  
Certification Manager

ACCREDITED BY  
THE DUTCH COUNCIL  
FOR ACCREDITATION



© Integral publication of this certificate is allowed

**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

|            |   |                                                              |
|------------|---|--------------------------------------------------------------|
| product    | : | fasteners for cables or conduits of electrical installations |
| trade name | : | ABB HAF                                                      |
| type       | : | ZB2                                                          |

**Product data - type ZB2**

|             |   |                            |
|-------------|---|----------------------------|
| material    | : | thermoplastic              |
| clamp type  | : | plug clamp                 |
| application | : | for dimensions 16 and 19mm |

**TESTS****Test requirements**

KEMA 51:1999

**Test result**

The test results are laid down in KEMA test file 2111070.01.

**Conclusion**

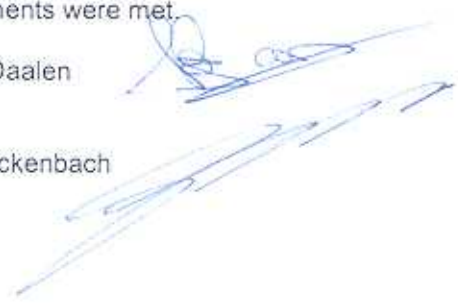
The examination proved that all test requirements were met.

|           |   |               |
|-----------|---|---------------|
| Tested by | : | R. van Daalen |
|-----------|---|---------------|

|            |   |                 |
|------------|---|-----------------|
| Checked by | : | A.A. Mackenbach |
|------------|---|-----------------|

**Factory location**

ABB B.V. Division AT  
Frankeneng 15  
6716 AA, Ede  
The Netherlands

Two handwritten signatures in blue ink. The first signature is above the 'Tested by' line, and the second is above the 'Checked by' line.