



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX PRE 15.0063 Issue No: 0 Certificate history:
Issue No. 0 (2015-11-06)

Status: Current Page 1 of 3

Date of Issue: 2015-11-06

Applicant: **A-Kabel AS**
Nedre Hagavei 15C,
2150 Årnes.
Norway

Electrical Apparatus: **Headsets and Ear Plug**
Optional accessory:

Type of Protection: **Intrinsic safe**

Marking: Ex ib IIC T4 Gb $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
Headset: Ui: 9Vdc, Ii: 291mA, Pi: 1.2W, Ci: negligible, Li: 0.9mH or Li/Ri: 6 $\mu\text{H}/\Omega$
Ear Plug: Ui: 9Vdc, Ii: 300mA, Pi: 0.6W, Ci: negligible, Li: 3.497mH or Li/Ri: 4.22 $\mu\text{H}/\Omega$

Approved for issue on behalf of the IECEX
Certification Body:

Asle Kaastad

Position:

Certification manager

Signature:
(for printed version)

Asle Kaastad

Date:

2015-11-06

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

DNV Nemko Presafe AS
Gautadalleen 30
P.O.Box 73 Blindern
0314 Oslo
Norway





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Certificate No: IECEx PRE 15.0063

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Page 2 of 3

Manufacturer: **A-Kabel AS**
Nedre Hagavei 15C,
2150 Årnes
Norway

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NO/PRE/ExTR15.0059/00

Quality Assessment Report:

NO/NEM/QAR15.0007/00



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Certificate No: IECEx PRE 15.0063

Issue No: 0

Date of Issue: 2015-11-06

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The certificate covers headset models AK5850, AK5850S, AK5850HS & AK6631 and ear plug model EM2140DC-S. The covered equipment is intended to be used for radio communication. Connection to radio units or via PTT (Push-To-Talk) units. The offshore ear plug may be used as stand-alone unit to be connected to PTT units or as accessory to the headset models AK5850S/-HS. However dedicated certificates of radios or PTT units must give permission for such intrinsic safe connections with regards to Ex requirements. In other words matching of safety parameters is important for intrinsic safe connection where following conditions must be considered in the end use:

$U_o \leq U_i$, $I_o \leq I_i$, $C_o \geq C_i + C_c$, $L_o \geq L_i + L_c$ (C_c & L_c is cable's capacitance & inductance).

Headset models: AK5850 is standard version. AK6631 is version with slim ear cup. AK5850S is version with helmet attachment.

AK5850HS is version with headband. Both AK5850S and AK5850HS have optional ear plug connection. Ear plug has version A & B with respective 3.5mm plug or the jack Nexus TP-120.

Parameters for Intrinsic Safety

Headset: U_i : 9Vdc, I_i : 291mA, P_i : 1.2W, C_i : negligible, L_i : 0.9mH or L_i/R_i : 6 μ H/ Ω

Ear Plug: U_i : 9Vdc, I_i : 300mA, P_i : 0.6W, C_i : negligible, L_i : 3.497mH or L_i/R_i : 4.22 μ H/ Ω

CONDITIONS OF CERTIFICATION: NO