



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx PRE 15.0063	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2021-12-07) Issue 0 (2015-11-06)
Date of Issue:	2022-07-16		
Applicant:	A-Kabel AS Nedre Hagavei 15C 2150 Årnes. Norway		
Equipment:	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: 6μH/Ω Ear Plug: Ui: 9Vdc, Ii: 300mA, Pi: 0.6W, Ci: negligible, Li: 3.497mH or Li/Ri: 4.22μH/Ω		

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





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

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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/ExTR15.0059/02](#)

Quality Assessment Report:

[NO/NEM/QAR15.0007/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The certificate covers headset models AK5850, AK5850S, AK5850HS, AK5850BHS, AK5850BH, AK5850BS, AK5850B, AK5850T & 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/-BHS/-BS. 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 B with respective 3.5mm plug.

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 : 6μH/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 : 4.22μH/Ω

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

Type designation:

Model	Description
AK5850	Headset. Standard version.
AK6631	Headset with slim cup
AK5850S	Headset with helmet attachment. Built-in connector for optional ear plug input.
AK5850HS	Headset with headband. Built-in connector for optional ear plug input.
AK58580BHS	Headset with headband and connector for ear plug. With extension rings on cups.
AK5850BH	Headset with headband without connector for ear plug. With extension rings on cups.
AK5850BS	Headset with helmet attachment and connector for ear plug. With extension rings on cups.
AK5850B	Headset without helmet attachment and connector for ear plug. With extension rings on cups.
AK5850T	Headset with 32Ω speaker and ODU connector as an option.
EM2140DC-S	Offshore ear plug version B: Plug is 3.5mm molded jack. (Connect to headsets AK5850S, AK5850HS, AK5850BS and AK5850BHS.)



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updated marking and instructions due to UKEX certification.
- Added model AK5850T.
- The configuration with military jack plug, type Nexus TP-120, for the offshore ear plug is discontinued, and previous version A of the plug (3.5mm molded jack) is renamed version B.