


TECHNICAL REPORT

Product	AK6724W - Key-switch (push button) AK6916: Accessory cable		
Name and address of the applicant	A-Kabel AS Nedre Hagavei 15C 2150 Årnes Norway		
Rating and principal characteristics	Ui: 8,4V, li: 1,5A, Ci: 52nF, Li=Negligible Uo: 8,4V Io: 270mA, Po: 0,57W Co: 6,2µF, Lo: 0,46mH		
Trade mark (If any)	N / A		
Model/type	AK6724W and AK6916		
DNV certificate no.	DNV 23 ATEX 95140		
Ex-code for component / electrical apparatus	 II 2 G Ex ib IIC T4 Gb		
Additional information	Tamb -20°C to +40°C		
Report issue No.	0		
Tested according to	EN IEC 60079-0:2018 (IEC 60079-0 ed. 7)	Explosive atmospheres, Part 0: Equipment – General requirements	
	EN 60079-11:2012 (IEC 60079-11 ed. 6)	Electrical apparatus for potentially explosive atmospheres , Part 11: Equipment protection by intrinsic safety «i»	
Name and address of the testing laboratory		DNV Product Assurance AS Veritasveien 1 1363 Høvik Norway	Tel: +47 67 57 88 00 e-mail: ex@dnv.com Web: www.dnv.com
Prepared by	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gunnar Nielsen		2023-04-21 Date
Reviewed by	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Digital signature		
Approved by	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Digital signature		

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General remarks:

The test results presented in this Technical Report relate only to the item or product tested.

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[Appendix; Part 0 \(IECEx TEST REPORT, IEC 60079-0\)](#)

[Appendix; Part 1 \(IECEx TEST REPORT, IEC 60079-11\)](#)

Description of equipment under test:

Key switch (push button) AK6724W for connection between a certified radio transceiver and a certified head-set. The equipment is certified to use with certified headsets where the input parameters match the output parameters of the key switch and certified radios where the output parameters match the input parameters of the key-switch, as specified in this certificate.

[AK6916: Accessory cable for connection between key-switch and headset.](#)

Warning markings;

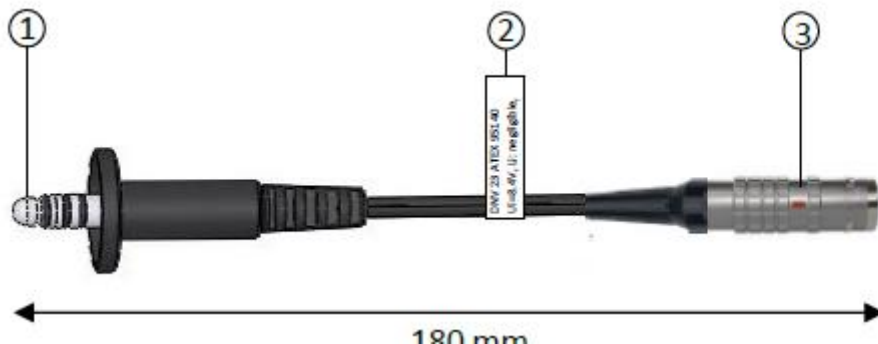
N / A

Descriptive documents;

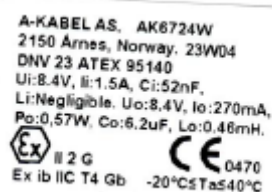
Drawing No.	Name/Title	Rev.	Date	Page/-s
DNV 23 ATEX 95140	Dok. User info. AK6724W	1	20.02.23	1
User Guide for Adapter cable AK6916	User Guide for Adapter cable AK6916	1	20.02.23	1
Certificate no. 09ATEX1082	Dok. Marking AK6724W	2	20.02.23	1
Adapter cable AK6916	Adapter cable AK6916	1	20.02.23	1
S046B	Pcb connector GP340 MTP850EX	B	20.04.09	1
S063A	Mike amp. & headset interface	A	20.04.09	1
S064A	Safety barriere interface	A	20.04.09	1
B064A	Safety barriere interface	A	18.02.09	3
B063A	Mike amp. & headset interface	A	18.02.09	3
B046B	Pcb connector GP340 MTB850EX	B	18.02.09	3
46B Bill of materials	Bill of materials	A	18.02.09	1
63A bill of materials	Bill of materials	A	18.02.09	1
64A bill of materials	Bill of materials	A	18.02.09	1
AK 6724 W assy ½ PTT UNIT A	Assembly drawing	A	23.03.09	1
AK 6724 W assy 2/2 INTERFACE UNIT M1	Assembly drawing	A	20.03.09	1
AK6724w	AK6724w system connections	A	18.02.09	1

Copy of marking plate:

AK6916: Accessory cable



AK6724W - Key-switch (push button):



Tested according to additional information:


N / A

Other requirements:

N / A

Additional information:

N / A

Calibration:	All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Further information about traceability will be given on request.
Measurement uncertainty:	Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EA-4/02 (Oct 2013). Further information about measurement uncertainties will be given on request
Laboratory accreditation	 Testing laboratory satisfy requirements in NS-EN ISO/IEC 17025

Possible test case verdicts:

- test case does not apply to the test item.....: N / A
- test item does meet the requirement.....: Pass

Report History

Issue No.	Date of revision	Description
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Report History

0	2023-04-21	Original report (based on Nemko 09ATEX1082 and report no. 123970) and include the cable adapter.
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Equipment tested:

DNV Sample ID.	Date received	Description (size, colour, material, prototype modification, version no. etc)	Serial no. (if any)
1	2023-03-23	Cable adapter	-

Photos of equipment






Photos of equipment



EN IEC 60079-0:2018			
Clause	Requirement - Test	Result - Remark	Verdict
Endorsement notice: The text of the International Standard IEC 60079-0:2017 was approved by CENELEC as a European Standard without any modifications Additional information relating to the European ATEX directive 2014/34/EU (informative):			
Annex ZY.1	Equipment groups and categories		
Annex ZY.2	Instructions In clause 30.1 under: "instructions for safety addressing the following areas – installation and erection;" "Information other than the general requirements given in IEC 60079-14" Is replaced by "Information other than the general requirements given in EN 60079-14 and EN 50628"		Pass
Annex ZY.3	Marking	Refer to checklist for MARKING: -ADDITIONAL REQUIREMENTS ACCORDING TO ATEX DIRECTIVE	Pass
Annex ZY.4	Fans Clause 17.2.5 "Room ventilating fans" is to be supplemented by the requirements given in EN 14986 "Design of fans working in potentially explosive atmospheres"	EUT is not a fan.	Pass

EN 60079-11:2012			
Clause	Requirement - Test	Result - Remark	
Endorsement notice: The text of the International Standard IEC 60079-11:2011 was approved by CENELEC as a European Standard without any modifications.			

MARKING: -ADDITIONAL REQUIREMENTS ACCORDING TO ATEX DIRECTIVE			
Clause	Requirement - Test	Result - Remark	Verdict
	Where reference is made to Directive 2014/34/EU, the marking shall also include (Annex II, 1.0.5)		Pass
	<ul style="list-style-type: none"> name, registered trade name or registered trade mark, and address of the manufacturer, 	A-Kabel AS 2150 Årnes Norway	Pass
	<ul style="list-style-type: none"> the year in which the equipment was constructed 	E.g. 23W04	Pass
	<ul style="list-style-type: none"> the specific marking of explosion protection  followed by the symbol of the equipment-group and the category 	 II 2	Pass
	<ul style="list-style-type: none"> CE marking with identification number to the notified body involved in the production control phase 	 0470	Pass
	<ul style="list-style-type: none"> If ATEX component, no CE mark, only NB number 	EUT is not an Ex component.	N / A
	for equipment Group II:		Pass
	<ul style="list-style-type: none"> the letter 'G' where explosive atmospheres caused by gases, vapours or mists are concerned and/or 	G	Pass
	<ul style="list-style-type: none"> the letter 'D' where explosive atmospheres caused by dusts are concerned 	EUT not intended for use in dust atmospheres.	N / A