



[1]

UNITED KINGDOM CONFORMITY ASSESSMENT
UK-TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] UK-Type Examination Certificate No.: **UL22UKEX2678X Rev. 0**
[4] Product: **Cable gland type **SKE/1(S)(-L)-*(-RDE) ** (LT) (MFD **/***(-**/**))**
[5] Manufacturer: **WISKA Hoppmann GmbH**
[6] Address: **Kisdirfer Weg 28, 24568 Kaltenkirchen, Germany**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.
The examination and test results are recorded in the confidential report DE/PTB/ExTR13.0049/04.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

EN 60079-31:2014

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the Schedule to this certificate.

[11] This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex eb IIC Gb**

 **II 2 D Ex tb IIIC Db**

Certification Officer
Andrew Moffat

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2023-01-31

Approved Body UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
Phone : +44 (0)1256 312100



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Schedule

UK-TYPE EXAMINATION CERTIFICATE No.

UL22UKEX2678X Rev. 0

- [15] **Description of Product**
 The cable gland type **SKE/1(S)(-L)-*(-RDE) ** (LT) (MFD **/**(-**/**)) made from polyamide. It is used for permanently wired cables entering electrical equipment in the type of protection Increased Safety "eb" or Protection by Enclosure "tb". The cable entry can be installed in enclosures with threaded holes and through-holes. The cable entry consists of an adapter with connection thread, a cap nut, an elastomeric sealing insert, and a gasket at the connection thread. Accessories are a multiple sealing insert, a sealing insert for special shapes, a blind plug of type BS** and a nut with anti-kink spiral.

Technical data

Connection thread size	Metric, EN 60423: M12x1.5 to M63x1.5
Connection thread length	9 mm to 18 mm
Minimum wall thickness of housing	Threaded hole, metal housing: 3mm Threaded hole, plastic housing: 3mm Through-hole, metal housing: 1mm Through-hole, plastic housing: 2mm
Ambient temperature range	See table below
Ingress protection	IP66 / IP68 (5 bar, 30 mins) according to EN 60529
Suited for equipment of device group II with the mechanical risk level	Depends on the size and the ambient temperature. See table below.
Suited for cable diameters	Subject to nominal size, Between 1 mm and 48 mm

Sealing range / mm	Type of cable gland	Reduced sealing range / mm (-RDE)	Type of cable gland	Torques / Nm	
				Adapter	Cap nut
3 - 6	ESKE/1 (S)(-L)(-*) 12 (LT)	1 - 3	ESKE/1 (S)(-L)(-*)-RDE 12 (LT)	2.0	2.0
4.5 - 9	ESKE/1 (S)(-L)(-*) 16 (LT)	2 - 6	ESKE/1 (S)(-L)(-*)-RDE 16 (LT)	1.8	1.3
7 - 13	ESKE/1 (S)(-L)(-*) 20 (LT)	4 - 8	ESKE/1 (S)(-L)(-*)-RDE 20 (LT)	2.3	1.5
10 - 17	ESKE/1 (S)(-L)(-*) 25 (LT)	7 - 12	ESKE/1 (S)(-L)(-*)-RDE 25 (Ln)	3.0	2.0
13 - 21	ESKE/1 (S)(-L)(-*) 32 (LT)	9 - 14	ESKE/1 (S)(-L)(-*)-RDE 32 (LT)	4.5	3.0
17 - 28	ESKE/1 (-L)(-*) 40 (LT)	12 - 20	ESKE/1 (-L)(-*)-RDE 40 (LT)	11.0	10.0
23 - 35	ESKE/1 (-L)(-*) 50 (LT)	16 - 25	ESKE/1 (-L)(-*)-RDE 50 (LT)	13.0	12.0
34 - 48	ESKE/1 (-L)(-*) 63 (LT)	28 - 38	ESKE/1 (-L)(-*)-RDE 63 (LT)	17.0	16.0

Type, Normal Version	Ambient temperature	Risk of mechanical danger
ESKE/1 (S)(-L)(-*)(-RDE) 12	+15 °C to +65 °C	Low
ESKE/1 (S)(-L)(-*)(-RDE) 16	-40 °C to +75 °C	Low
ESKE/1 (S)(-L)(-*)(-RDE) 20	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 25	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 32	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 40	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 50	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 63	-40 °C to +75 °C	High

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Type, LT Version	Ambient temperature	Risk of mechanical danger
ESKE/1 (S)(-L)(-*)(-RDE) 12 LT	+15 °C to +65 °C	Low
ESKE/1 (S)(-L)(-*)(-RDE) 16 LT	-40 °C to +75 °C	Low
ESKE/1 (S)(-L)(-*)(-RDE) 20 LT	-60 °C to +75 °C	Low
	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 25 LT	-60 °C to +75 °C	Low
	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 32 LT	-60 °C to +75 °C	Low
	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 40 LT	-60 °C to +75 °C	Low
	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 50 LT	-60 °C to +75 °C	Low
	-40 °C to +75 °C	High
ESKE/1 (S)(-L)(-*)(-RDE) 63 LT	-60 °C to +75 °C	Low
	-40 °C to +75 °C	High

Nomenclature

*	S	K	E/1	(S)	(-L)	(-*)	(RDE)		**		(LT)		(MFD)		**	/	***	(-**	/	***)
1	2	3	4	5	6	7	8	9	10	11	12	13	14							
													A	B	C	D	E	F	G	H

- 1 = Connection thread
E = Metric thread according to EN 60423
- 2 = Cable gland system
S = WISKA SPRINT system
- 3 = Product
K = Cable gland
- 4 = Field of application
E/1 = Explosion protected area, 1st revision of this type
- 5 = Optional designation of cable protection
S = Cap nut with anti-kink spiral
- 6 = Optional designation of connection thread length
L = long connection thread (only for thread E)
- 7 = Type of protection
e = increased safety
i = intrinsic safety (designated by a blue cap nut)
- 8 = Optional designation of additional reduced sealing insert
RDE = reducer sealing insert
- 9 = Space
- 10 = Nominal size of connection thread, for example
16 = Metric thread M16x1.5
40 = Metric thread M40x1.5
- 11 = Space
- 12 = Optional designation of service temperature
Blank = Normal
LT = Low temperature (-60 °C)
- 13 = Space
- 14 = Optional designation of sealing insert A = MFD (multiple sealing insert)
B = Space
C = Number of holes
D = Forward slash
E = Diameter of holes in 1/10 mm, for example
063 = 6.3 mm diameter
F = Optional second number of holes (second diameter)
G = Forward slash
H = Optional second diameter of holes

NOTE: The sealing range of the multiple sealing inserts is between the given diameter of the hole and this diameter -10 % (max. 1 mm less than the given diameter).

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Routine tests
None

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Test Report No. (associated with this certificate issue)
The test report no. is provided under item no. [8] on page 1 of this UK-Type Examination Certificate.

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Specific conditions of use:

- Only permanently wired cables may be entered. The user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
- Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.
- The ambient temperature range of the cable glands type ESKE/1 (S)(-L)(-*)(-RDE) 12 and ESKE/1 (S)(-L)(-*)(-RDE) 12 LT is restricted to +15 °C to +65 °C.
- Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.

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Conditions of certification:
None

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Essential Health and Safety Requirements (Regulations Schedule 1)
In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information
The Products have in addition passed the tests for Ingress Protection to IP66 and IP68 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.

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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Description for IECEx PTB 13.0034X Issue No. 4 and EGB PTB 13 ATEX 1015X Issue: 03	Description ESKE-1_1ss04_1ECEx_Rev00.doc	00	2022-02-15
Operating instructions	50103520004_BA ESKE-1	-	2022-04
Drawing Reduzierdichteinsatze	50073788-11	11	2018-02-14
Drawing Formdichtungen	50083670-15	15	2018-02-14
Drawing "Verschraubungen "e" und "i" ESKE/1	10103363-02	02	2013-08-16
Component assembly drawing	10103363-01	01	20.08.2015
Drawing Stutzen ESSE**	30072451-00	00	2013-08-20
Drawing Stutzen ESSE-L**	30072405-00	00	2013-08-20
Cap nut EHME-# 12	SN-009193-08	08	2022-11-23
Cap nut EHME-# 16	SN-009194-08	08	2022-11-23
Cap nut EHME-# 20	SN-009195-08	08	2022-11-23
Cap nut EHME-# 25	SN-009196-08	08	2022-11-23
Cap nut EHME-# 32	SN-009197-08	08	2022-11-23
Cap nut EHME-# 40	SN-009198-09	09	2022-11-23
Cap nut EHME-# 50	SN-009199-09	09	2022-11-23
Cap nut EHME-# 63	SN-009200-09	09	2022-11-23
Ex cap nut M12 with bend protection spiral	SN-009201-03	03	2022-11-23
Ex cap nut M16 with bend protection spiral	SN-009203-03	03	2022-11-23
Ex cap nut M20 with bend protection spiral	SN-009204-03	03	2022-11-23
Ex cap nut M25 with bend protection spiral	SN-009205-03	03	2022-11-23
Ex cap nut M32 with bend protection spiral	SN-009206-03	03	2022-11-23