



Technická inšpekcia, a.s.

Trnavská cesta 56, 821 01 Bratislava
Slovenská republika

[1] EU-TYPE EXAMINATION CERTIFICATE



- [2] Equipment or Protective System Intended for use in potentially explosive atmospheres
Directive 2014/34/EU
- [3] EU-Type Examination Certificate Number:
TI21ATEX 1119 X
- [4] Product: **ATCAB® CABLE GLAND A2 Series***
Type: A1-A2 and A2F
- [5] Manufacturer: **ATLAS METAL INDUSTRIES PRIVATE LIMITED**
- [6] Address: **INDUSTRIAL PLOT NUMBER 1 AND 2, R.S.NO 472, AT VILLAGE CHANGA, JAMANGAR LALPUR HIGHWAY, CHANGA, TALUKA JAMNAGAR, GUJARAT, 361012**
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] Technická inšpekcia, a.s., Notified Body Number 1354 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of product intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report No. 822/5/2017.
- [9] Compliance with the Essential Health and safety Requirements has been assured by compliance with: **EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014** except in respect of those requirements listed at item 18 of the Schedule.
- [10] If the sign "X" is placed after the certificate number, it indicate that the product is subject to the Specific conditions of Use specified in the schedule to this certificate.
- [11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of this Directive apply to the manufacturing process and supply of this product.
- [12] The marking of the product shall include the following:



II 2 GD

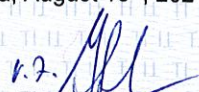
Ex db IIC Gb / Ex e IIC Gb
Ex tb IIIC Db IP67

-60°C ≤ Tamb ≤ +125°C
-60°C ≤ Tamb ≤ +125°C

Technická inšpekcia, a.s.
Trnavská cesta 56
821 01 Bratislava, Slovakia
e-mail: tisr@tisr.sk
web: www.tisr.sk
Tel.: +421 2 49208 100



Bratislava, August 16th, 2021


JUDr. Vladimír Jurík
General Director

479047

This Certificate has cancelled Certificate No. TI21ATEX 101 X dated January 28th, 2021.
This certificate may only be reproduced in its entirety and change, schedule included.

Page 1 of 5 of Certificate No. TI21ATEX 1119 X



NB 1354



[13] **Schedule**

[14] **EU-Type Examination Certificate Number: TI21ATEX 1119 X**

[15] Description of product:

ATCAB® CABLE GLAND A2 Series*, Type: A1-A2 and A2F

The A2 Series* cable gland are single compression cable gland intended for outdoor use in the appropriate hazardous areas providing environmental protection IP67 with entry thread of Metric, BSP (BS Pipe Threads), NPT (Taper Threads) and ET (BS Conduit Thread). They are suitable for normal industrial environmental of temperature, humidity and vibration.

The A2 Series* cable gland **type A1-A2** consists of Lock Nut, Thread Seals, Gland Body, Sealing Ring, Nylon Washer and Bush.

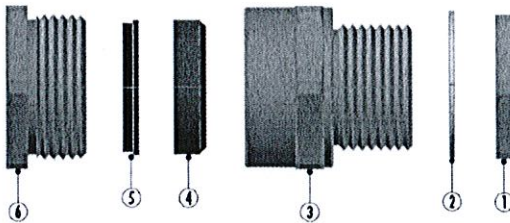
The A2 Series* cable gland **type A2F** consists of Lock Nut, Thread Seals, Gland Body, Sealing Ring, Brass Washer and Bush.

Construction material of metallic part is from Brass, Steel or Mild Steel. Sealing Ring is made of EPDM or SILICON (Optional). Thread Seals and Nylon Washer are made of NYLON (PA6).

The A2 Series* cable gland are suitable for operating temperature in the range -60°C to +125°C.

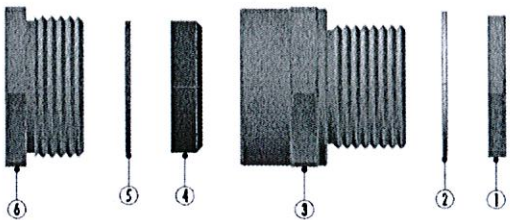
Type A1-A2 and Types A2F is intended for all types unarmoured and braid armoured cable.

A2 Series* cable gland Type A1-A2



BILL OF MATERIAL				
Part No.	Part Name	Material	Supplier Detail	Qty.
1	Lock Nut	Brass : BS 2784 CZ121 or IS 319 gr.1 , SS: ASTM A314 gr. 304/316 L , Mild Steel	In - house	1
2	Thread Seals	NYLON PA6	Bajrang Plastic	1
3	Gland Body	Brass : BS 2784 CZ121 or IS 319 gr.1 , SS: ASTM A314 gr. 304/316 L , Mild Steel	In - house	1
4	Sealing Ring	EPDM / SILICON	Kesaria Rubber	1
5	Nylon Washer	NYLON PA6	Bajrang Plastic	1
6	Bush	Brass : BS 2784 CZ121 or IS 319 gr.1 , SS: ASTM A314 gr. 304/316 L , Mild Steel	In - house	1

A2 Series* cable gland Type A2F



BILL OF MATERIAL				
Part No.	Part Name	Material	Supplier Detail	Qty.
1	Lock Nut	Brass : BS 2784 CZ121 or IS 319 gr.1 , SS: ASTM A314 gr. 304/316 L , Mild Steel	In - house	1
2	Thread Seals	NYLON PA6	Bajrang Plastic	1
3	Gland Body	Brass : BS 2784 CZ121 or IS 319 gr.1 , SS: ASTM A314 gr. 304/316 L , Mild Steel	In - house	1
4	Sealing Ring	EPDM / SILICON	Kesaria Rubber	1
5	Brass Washer	Brass : BS 2784 CZ121 or IS 319 gr.1 ,	In - house	1
6	Bush	Brass : BS 2784 CZ121 or IS 319 gr.1 , SS: ASTM A314 gr. 304/316 L , Mild Steel	In - house	1

This Certificate has cancelled Certificate No. TI21ATEX 101 X dated January 28th, 2021

This certificate may only be reproduced in its entirety and change, schedule included.

Page 2 of 5 of Certificate No. TI21ATEX 1119 X



A2 Series* cable gland **Type A1–A2 and Type A2F** size and specification:

Gland Size	Standard Entry Threads			Thread Length (D)			Cable Dim. (mm)	
	Other Options/Size (C)						Cable Dia (A)	
	Metric (ISO)	NPT / BSP	ET	Metric (ISO)	NPT / BSP	ET	Min	Max
A2* 20S	M20	1/2"	3/4"	15	19	16.5	6.10	11.60
A2* 20	M20	1/2"	3/4"	15	19	16.5	6.50	13.90
A2* 25	M25	3/4"	1"	15	20	16.5	11.10	19.90
A2* 32	M32	1"	1-1/4"	15	22	16.5	17.00	26.20
A2* 40	M40	1-1/4"	1-1/2"	15	22	16.5	22.00	32.10
A2* 50S	M50	1-1/2"	2"	20	22	20	29.50	38.10
A2* 50	M50	2"	2"	20	22	20	35.60	44.00
A2* 63S	M63	2"	2-1/2"	20	22	20	40.10	49.90
A2* 63	M63	2-1/2"	2-1/2"	20	29	20	47.20	55.90
A2* 75S	M75	2-1/2"	3"	20	29	20	52.80	61.90
A2* 75	M75	3"	3"	20	29	20	59.10	67.90
A2* 90	M90	3"	3-1/2"	20	29	20	66.60	79.30

All dimensions are in millimeter

Materials of A2 Series* cable gland Type A1–A2 and Type A2F:

Material composition of Brass BS 2874 CZ121 or IS 319 gr.1:

Contituent	As Per IS - 319 (Grade 1)
Copper (Cu)	56.00 to 59.00 %
Lead (Pb)	2.00 to 3.50 %
Iron (Fe)	0.35%
Aluminium (Alu.)	*
Zinc	Remainder
Total Impurity Max.	0.70%

Material composition of Stainless Steel SS304 or SS316 L:

Contituent	ASTM/ASME 316L	ASTM/ASME 304
Carbon (C)	0.03 Max.	0.08 Max.
Silicon (Si)	0.75 Max.	0.75 Max.
Maganese (Mn)	2.00 Max.	2.00 Max.
Sulfur (S)	0.03 Max.	0.03 Max.
Phosphorus (P)	0.045 Max.	0.045 Max.
Chromium (Cr)	16.0 Min. to 18.0 Max.	18.0 Min. to 20.0 Max.
Nickel (Ni)	10.0 Min. to 14.0 Max.	8.0 Min. to 12.0 Max.
Other	Remainder	Remainder

Material composition of Mild Steel:

Contituent	ASTM/ASME
Carbon (C)	0.475
Silicon (Si)	0.249
Maganese (Mn)	0.570
Sulfur (S)	0.0120
Phosphorus (P)	0.0210
Chromium (Cr)	0.0220
Nickel (Ni)	0.0230
Iron (Fe)	98.6

This Certificate has cancelled Certificate No. T121ATEX 101 X dated January 28th, 2021.

This certificate may only be reproduced in its entirety and change, schedule included.

Page 3 of 5 of Certificate No. T121ATEX 1119 X



Silicon material:

S. No.	Particulars	Unit	Values
1	Polymer/Rubber	SILICON	
2	Hardness	Shore-A	60 (+3/-3)
3	Specific Gravity	----	1.19±0.02
4	Minimum Tensile Strength	Mpa	7
5	Minimum Elongation at Break	%	280
6	Operating Temperature Range	°C	(-60 To +230)
7	Shelf Life	Month	24

EPDM material:

S. No.	Particulars	Unit	Values
1	Polymer/Rubber	EPDM	
2	Hardness	Shore-A	60 (+5/-4)
3	Specific Gravity	----	1.10±0.02
4	Minimum Tensile Strength	Mpa	10
5	Minimum Elongation at Break	%	350
6	Maximum Compression Set (24 Hrs.@100°C)	%	35
7	Operating Temperature Range	°C	(-60 TO +150)
8	Shelf Life	Month	24

NYLON material (PA6):

Material	Formula	Coefficient of thermal expansion $\times 10^{-6} \text{ K}^{-1}$	Heat-deflection temperature - 0.45MPa °C	Heat-deflection temperature - 1.8MPa °C	Lower working temperature °C	Specific heat $\text{J K}^{-1} \text{ kg}^{-1}$	Thermal conductivity $\text{W m}^{-1} \text{ K}^{-1}$	Upper working temperature °C
Polyamide - Nylon 6, 6 - 30% Glass Fiber Reinforced	PA 6,6 30% GFR	20-30	257	252	-120	-	0.23 @23C	80-200

[16] Report Number:

Inspection report No: 822/5/2017

Final Test Report No: 822/5/2017

Inspection report No.: 1119/5/2021 about verification of change legal status of manufacturer only.

[17] Specific Conditions of Use:

- The cable entries are intended for fixed installations, cable must be effectively clamped from pulling and twisting.
- Cable glands shall not be used in enclosures where the temperatures at the point of entry/mounting are outside the range -60°C to +125°C.
- The A2 Series* cable glands Type A1–A2 and Type A2F should only be used with unarmoured and braid armoured cables.
- Please read Installation Instructions for Use A2 Series* Cable Gland supplied with the product before installing the product.
- Installation shall be in accordance with requirements of EN60079-14.

This Certificate has cancelled Certificate No. TI21ATEX 101 X dated January 28th, 2021.

This certificate may only be reproduced in its entirety and change, schedule included.

Page 4 of 5 of Certificate No. TI21ATEX 1119 X



[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information: None.

[19] Drawings and Documents:

Number	Sheet	Issue	Date	Description
2001-01	1pg	Rev. No. 00	26.07.2017	Drawing- ATCAB Cable Gland A2 Series*
2001-02	1pg	Rev. No. 00	26.07.2017	Drawing- ATCAB Cable Gland A2 Series*
2001-03	1pg	Rev. No. 00	26.07.2017	Drawing- ATCAB Cable Gland A2 Series*
	1pg		25.07.2017	Declaration ATLAS METAL INDUSTRIES
11056289	21pgs		Oct. 2012	Intertek Test Report E1FW ATCAB
6929	1pg	REV. 00,	22.03.2017	Brass Material Test Report
EPO1060BK	1pg	Rev. No. 0		Material Data Sheet- EPDM
454	1pg	Rev. No. 00	24.04.2017	Material Test Report- Mild Steel
	1pg	N/A		Material Data Sheet- Nylon
SIL1960	1pg	Rev. No. 00		Material Data Sheet- Silicon
1256	1pg	Rev. No. 00	01.06.2017	Material Test Report- Stainless Steel
2252	1pg	Rev. No. 00	26.07.2017	Material Test Report- Stainless Steel
2253	1pg	Rev. No. 00	26.07.2017	Material Test Report- Stainless Steel
016	1pg	Rev. No. 00	06.04.2017	Factory Test Report- A2 Cable Gland, Torque test
021	1pg	Rev. No. 00	06.04.2017	Factory Test Report- A2 Cable Gland, Sealing test
026	1pg	Rev. No. 00	06.04.2017	Factory Test Report- A2 Cable Gland, Impact test
081	1pg	REV.NO.00	15.06.2017	Factory Test Report- A2 Cable Gland, Slip Test
2001-04	1pg	REV. No.00	26.07.2017	Assembly fitting Instruction, ATCAB Cable Gland A2 Series*
24AAVCA2635B1ZW	3pgs	-	07.06.2020	Registration Certificate with new legal status

Technická inšpekcia, a.s.
 Trnavská cesta 56
 821 01 Bratislava, Slovakia
 e-mail: tisr@tisr.sk
 web: www.tisr.sk
 Tel.: +421 2 49208 100



Bratislava, August 16th, 2021

V. J. Jurik
 JUDr. Vladimír Jurik
 General Director

This Certificate has cancelled Certificate No. TI21ATEX 101 X dated January 28th, 2021.
 This certificate may only be reproduced in its entirety and change, schedule included.
 Page 5 of 5 of Certificate No. TI21ATEX 1119 X